

BETHLEHEM WIRE NAILS

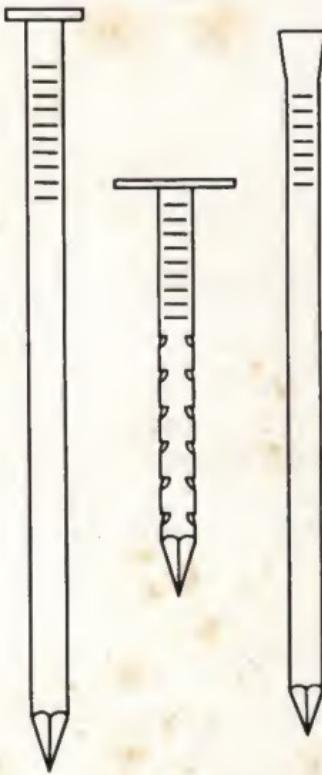
*and other
wire products*





BETHLEHEM WIRE NAILS

*and other
wire products*



BETHLEHEM STEEL COMPANY
GENERAL OFFICES: BETHLEHEM, PA.



CATALOG 565

WIRE

Bethlehem Wire Nails are furnished bright, annealed, blued, cement-coated, galvanized or bethanized; and with barbed, smooth, or special shanks as desired.

Nails for machine driving should be so specified. They are specially inspected and are subject to an applicable extra.

GALVANIZED NAILS

Bethlehem's galvanizing method produces nails which are thoroughly protected by a heavy and uniform coating of high-grade zinc. Applied by the tumbler process after the nails are made, the head, shank, and point are uniformly covered with zinc for long life.

Galvanized nails are recommended in all cases where nails are exposed to the weather. They are particularly desirable for roofing, shingle, and siding nails.

When ordered in sufficient quantities, nails in certain sizes can be furnished with a bethanized zinc coating. This type of zinc coating is applied electrolytically to the wire before the nail is made.

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NAILS

STANDARD SIZES

All Standard size nails are manufactured in accordance with Simplified Practice Recommendation R223-47 issued by the National Bureau of Standards, U. S. Department of Commerce.

NON-STANDARD SIZES

Nails of the same types as Standard nails but deviating in respect to length, gage, size or kind of head or point, barbing, etc., are classified as Non-Standard.

PACKAGING

50-lb Cartons—Standard.

Available at Extra Cost: 25-lb cartons; 5-lb packages; 1-lb packages.

FINISHES

Bright • Cement-Coated • Blued • Galvanized

Bethanized • Painted • Hardened • Annealed

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APPROX NUMBER OF BRIGHT NAILS PER POUND

SINGLE BLOW

Gage	Length, in.												
	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2
3/8	..	..	..	..	..	29	26	23	20	17	15	15	12
5/16	..	..	..	..	..	43	38	34	29	25	22	20	18
1	..	..	..	..	..	47	44	40	34	29	26	23	21
2	..	..	..	..	..	60	54	48	41	35	31	28	25
3	..	..	..	..	..	67	60	55	47	41	36	32	29
4	..	..	..	..	..	81	74	66	55	48	41	37	34
5	..	..	..	..	..	90	81	74	61	52	45	41	38
6	..	213	174	149	128	113	101	91	76	65	58	52	47
7	..	250	205	174	148	132	120	110	92	78	70	61	55
8	..	272	238	198	174	153	139	126	106	93	82	74	66
9	..	348	286	238	213	185	170	152	128	112	99	87	79
10	..	469	373	320	277	242	216	196	165	142	124	111	100
11	..	510	417	366	323	285	254	233	200	171	149	136	122
12	..	740	603	511	442	397	351	327	268	229	204	182	161
13	1356	1017	802	688	590	508	458	412	348	297	260	232	209
14	1664	1290	1037	863	765	667	586	536	459	398	350	312	278
15	2213	1619	1316	1132	971	869	787	694	578	501	437	390	351
16	2720	2142	1708	1414	1229	1099	973	872	739	635	553	496	452
17	3890	2700	2306	1904	1581	1409	1253	1139	956	831	746	666	590
18	5072	3824	3130	2608	2248	1976	1760	1590	1338	1150	996	890	820
19	6860	5075	4132	3508	2816	2556	2284	2096	1772	1590	1390	1205	1060
20	9432	7164	5686	4795	4230	3596	3225	2893	2412	2070	1810	1620	1450

Gage	Length, in.												
	2 3/4	3	3 1/2	4	4 1/2	5	6	7	8	9	10	11	12
3/8	11	11	8.9	7.9	7.1	6.4	5.2	4.5	4.0	3.4	3.2	2.9	2.7
5/16	16	15	13	11	10	9	7.6	6.5	5.7	5.0	4.5	4.1	3.8
1	20	18	16	14	12	11	9.3	8.0	7.0	6.3	5.7	5.2	4.7
2	23	21	18	16	14	13	11	9.3	8.1	7.2	6.6	6.1	5.6
3	27	25	21	18	16	15	12	11	9.4	8.3	7.6	7.1	6.6
4	31	29	25	22	20	18	15	13	11	9.8	8.9	8.1	7.5
5	35	32	28	24	22	21	18	16	14	12	12	11	9.6
6	43	39	34	29	26	24	20	18	16	15	13	11	11
7	51	47	40	35	31	28	24	19	18	16	14	13	12
8	61	56	48	42	38	34	28	24	21	19	17	15	14
9	71	67	58	50	45	41	34	29	25	23	21	19	17
10	91	84	71	62	55	49	42	36	31	27	25	23	21
11	111	103	87	77	69	61	52	44	39	35	31	29	26
12	149	137	118	103	95	87	71	63	56	50	45	40	36
13	190	175	153	138	123	110	93	..	..	..	..	..	..
14	256	233	201	176	157	140	117	..	..	..	..	..	..
15	317	290	246	220	196	177	145	..	..	..	..	..	..
16	410	370	318	277	248	226	..	..	..	..	..	..	..
17	532	486	418	360	322	295	..	..	..	..	..	..	..
18	740	680	585	507	448	412	..	..	..	..	..	..	..
19	970	895	800	..	..	..	..	..	..	..	..	..	..
20	1315	1215	1035	..	..	..	..	..	..	..	..	..	..

Above figures are average values only. Exact figures will depend upon the type of nail.
Bethlehem Steel Wire Gage (formerly Washburn and Moen).

APPROXIMATE NUMBER OF BRIGHT NAILS PER POUND

LARGE AND EXTRA LARGE HEADS

SINGLE AND DOUBLE BLOW

*Gage	Head Diam in.	Length, in.									
		3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 5/8	1 3/4	2	2 1/4
8	1/2	219	188	166	148	133	112	103	96	84	71.9
9	1/2	242	211	187	167	152	128	119	111	98	84.4
10	7/16	310	269	236	211	191	162	148	137	121	..
10	15/32	299	261	230	205	186	157	145	133	119	102
10	1 1/2	285	250	222	199	181	153	..	134	117	101
10	5/8	205	185	169	156	145	126	..	112	101	94
10 1/2	7/16	338	292	258	231	209	176	163	152	133	..
10 1/2	9/16	247	222	202	185	170	147	..	130	116	102
11	7/16	368	320	284	255	231	194	180	169	148	129
11	1/2	290	259	235	215	197	170	..	150	134	116
11	9/16	258	232	211	193	178	154	..	136	122	109
11 1/2	13/32	403	356	299	270	247	210	197	183	162	..
12	3/8	513	443	390	348	314	263	243	226	199	171
12	7/16	410	364	327	297	272	233	..	204	178	165
12	1/2	349	313	284	259	239	205	..	181	162	160
13	19/64	..	..	531	473	425	355	332	305	254	..

*Gage	Head Diam in.	Length, in.									
		2 1/2	2 3/4	3	3 1/2	4	5	6	7	8	9
8	1/2	65	59.4	54.7	47.2	41.5	33.4	28.8	24	21.1	18.8
9	1/2	76.4	69.4	64.4	55.6	49	39.5	33.1	28.5	25	22.3
10	7/16	..	..	..	..	..	..	..	..	..	..
10	15/32	93	85	78.3	67.6	59.4	47.9	40.2	34.5	30.2	26.9
10	1 1/2	91.7	83.9	77.4	..	..	..	..	..	..	..
10	5/8	85	79	72	..	..	..	..	..	..	..
10 1/2	7/16	..	..	..	..	..	..	..	..	..	..
10 1/2	9/16	91	84	76	..	..	..	..	..	..	..
11	7/16	117	106	98	84.5	74.4	60	50.4	43.2	37.9	33.8
11	1/2	108	100	92	..	..	..	..	..	..	..
11	9/16	102	94	88	..	..	..	..	..	..	..
11 1/2	13/32	..	..	..	..	..	..	..	..	..	..
12	3/8	154	141	130	..	..	..	..	..	..	..
12	7/16	144	135	120	..	..	..	..	..	..	..
12	1/2	132	122	112	..	..	..	..	..	..	..
13	19/64	..	..	..	..	..	..	..	..	..	..

Above figures are average values only. Exact figures will depend upon the type of nail.

* Bethlehem Steel Wire Gage (formerly Washburn and Moen).

COMMON NAILS



Flat Head Diamond Point

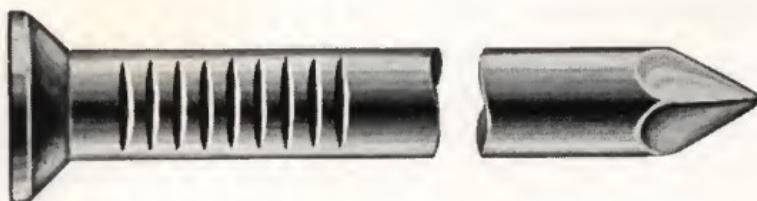
STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head in.	Approx Number per lb
2d	1	15	11/64	847
3d	1 1/4	14	13/64	543
4d	1 1/2	12 1/2	1/4	294
5d	1 3/4	12 1/2	1/4	254
6d	2	11 1/2	17/64	167
7d	2 1/4	11 1/2	17/64	150
8d	2 1/2	10 1/4	9/32	101
9d	2 3/4	10 1/4	9/32	92
10d	3	9	5/16	66
12d	3 1/4	9	5/16	61
16d	3 1/2	8	11/32	47
20d	4	6	13/32	29
30d	4 1/2	5	7/16	22
40d	5	4	15/32	17
50d	5 1/2	3	1/2	13
60d	6	2	17/32	10

Length is from point to underside of head.

ROUND WIRE SPIKES

Flat Countersunk Head—Diamond Point

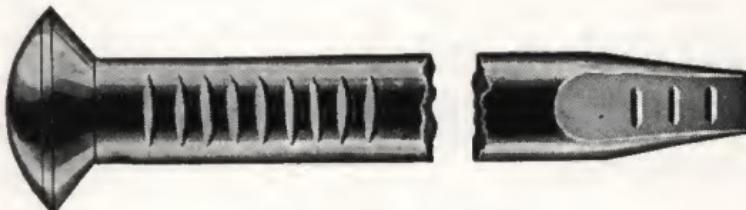


STANDARD SIZES

Length in.	Gage in.	Diam of Head in.	Approx Number per lb
7	5/16	5/8	6.8
8	5/16	5/8	5.2
8	3/8	3/4	4.1
10	3/8	3/4	3.3

Also furnished in non-standard sizes included in list below.
Length is overall.

Oval Countersunk Head—Chisel Point



NON-STANDARD SIZES

Length in.	Gage in.	Diam of Head, in.
6 1/2 to 9, incl.	9/32	9/16
6 1/2 to 12, incl.	5/16	5/8
6 1/2 to 12, incl.	3/8	3/4

Length is overall.

BOX NAILS

**Smooth
Large Flat Head
Diamond Point**



STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head in.	Approx Number per lb
3d	1 $\frac{1}{4}$	14 $\frac{1}{2}$	$\frac{7}{32}$	588
4d	1 $\frac{1}{2}$	14	$\frac{7}{32}$	453
5d	1 $\frac{3}{4}$	14	$\frac{7}{32}$	389
6d	2	12 $\frac{1}{2}$	$\frac{17}{64}$	225
7d	2 $\frac{1}{4}$	12 $\frac{1}{2}$	$\frac{17}{64}$	200
8d	2 $\frac{1}{2}$	11 $\frac{1}{2}$	$\frac{19}{64}$	136
10d	3	10 $\frac{1}{2}$	$\frac{5}{16}$	90
16d	3 $\frac{1}{2}$	10	$\frac{11}{32}$	69
20d	4	9	$\frac{3}{8}$	50

NON-STANDARD SIZES

2d	1	15 $\frac{1}{2}$	$\frac{3}{16}$	...
9d	2 $\frac{3}{4}$	11 $\frac{1}{2}$	$\frac{19}{64}$	...
12d	3 $\frac{1}{4}$	10 $\frac{1}{2}$	$\frac{5}{16}$	...
30d	4 $\frac{1}{2}$	9	$\frac{3}{8}$	...
40d	5	8	$\frac{13}{32}$	...
60d	6	6	$\frac{7}{16}$	...

Length is from point to underside of head.

BROOM NAILS

**Flat Head (Smooth or Flat Star)
Diamond Point**



NON-STANDARD SIZES

Length in.	Gage No.	Diam of Head in.
$\frac{5}{8}$	15	$\frac{13}{64}$
$\frac{3}{4}$	15	$\frac{13}{64}$
$\frac{5}{8}$	14	$\frac{7}{32}$
$\frac{3}{4}$	14	$\frac{7}{32}$

Length is from point to underside of head.

BERRY BOX NAILS



**Flat Head—Diamond or Needle
Point—Smooth or Barbed**

NON-STANDARD SIZES

Lengths, in.: $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{4}$

Gages: 16 or 17

Head: 9 gage

Length is from point to underside of head.

CLEAT, HINGE, LATCH PLATE AND LOCK NAILS

for Beer Cases



Oval Head

Duck Bill Point

NON-STANDARD SIZES

$14\frac{1}{2}$ ga x $11\frac{1}{64}$ " head x $1\frac{1}{8}$ "

14 ga x $3\frac{3}{16}$ " head x $\frac{5}{8}$ ", $\frac{3}{4}$ ", 1"

13 ga x $\frac{7}{32}$ " head x $\frac{5}{8}$ ", $\frac{3}{4}$ ", $\frac{1}{8}$ ", $1\frac{1}{8}$ ", $1\frac{3}{16}$ ", $1\frac{1}{4}$ ", $1\frac{5}{16}$ ", $1\frac{3}{8}$ "

$12\frac{1}{2}$ ga x $15\frac{1}{64}$ " head x $1\frac{5}{8}$ "

12 ga x $\frac{1}{4}$ " head x $1\frac{7}{8}$ "

Length is from point to underside of head.

STRAP NAILS

for Beer Cases



Oval Head

Short Diamond Point

NON-STANDARD SIZES

Length in.	Gage No.	Diam of Head in.
$1\frac{1}{4}$	13	$\frac{7}{32}$
$1\frac{1}{2}$	$12\frac{1}{2}$	$\frac{1}{4}$
$1\frac{3}{4}$	12	$\frac{1}{4}$
2	$11\frac{1}{2}$	$1\frac{7}{64}$

Length is from point to underside of head.

CLINCH NAILS

Oval Head—Duck Bill Point



NON-STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head in.
2d	1	14	$\frac{3}{16}$
3d	$1\frac{1}{4}$	13	$\frac{7}{32}$
4d	$1\frac{1}{2}$	12	$\frac{1}{4}$
5d	$1\frac{3}{4}$	12	$\frac{1}{4}$
6d	2	11	$1\frac{7}{64}$
7d	$2\frac{1}{4}$	11	$1\frac{7}{64}$
8d	$2\frac{1}{2}$	10	$\frac{9}{32}$
9d	$2\frac{3}{4}$	10	$\frac{9}{32}$
10d	3	9	$\frac{5}{16}$
12d	$3\frac{1}{4}$	9	$\frac{5}{16}$
16d	$3\frac{1}{2}$	8	$1\frac{1}{32}$
20d	4	7	$\frac{3}{8}$

Length is from point to underside of head

CLOUT NAILS

Flat Head—Duck Bill Point



NON-STANDARD SIZES

Length in.	Gage No.	Diam of Head in.
$\frac{3}{4}$	15	$\frac{7}{32}$
$\frac{7}{8}$	14	$1\frac{5}{64}$
1	14	$1\frac{5}{64}$
$1\frac{1}{8}$	14	$1\frac{5}{64}$
$1\frac{1}{4}$	13	$1\frac{7}{64}$
$1\frac{3}{8}$	13	$1\frac{7}{64}$
$1\frac{1}{2}$	13	$1\frac{7}{64}$

Length is from point to underside of head.

BARREL NAILS

Flat Head—Diamond Point



NON-STANDARD SIZES

Length in.	Gage No.	Diam of Head	
		Gage No.	in.
5/8	15 1/2	9	
3/4	15 1/2	9	
7/8	14 1/2	7	
1	14 1/2	7	
1 1/8	14 1/2	7	
1 1/4	14		3/16
1 3/8	13		7/32
1 1/2	13		7/32

Length is from point to underside of head.

HOOP FASTENERS



Bright or Galvanized

NON-STANDARD SIZES

No.	Length in.	Gage No.
0	1	8
1	9/16	9
2	1/2	10 1/2
3	3/8	13

Length is from point to underside of head.

FINISHING NAILS

Brad Head, Cupped—Diamond Point



STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head Gage No.	Approx Number per lb
3d	1 $\frac{1}{4}$	15 $\frac{1}{2}$	12 $\frac{1}{2}$	880
4d	1 $\frac{1}{2}$	15	12	630
6d	2	13	10	288
8d	2 $\frac{1}{2}$	12 $\frac{1}{2}$	9 $\frac{1}{2}$	196
10d	3	11 $\frac{1}{2}$	8 $\frac{1}{2}$	124

Length is overall.

NON-STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head Gage No.
2d	1	16 $\frac{1}{2}$	13 $\frac{1}{2}$
5d	1 $\frac{3}{4}$	15	12
7d	2 $\frac{1}{4}$	13	10
9d	2 $\frac{3}{4}$	12 $\frac{1}{2}$	9 $\frac{1}{2}$
12d	3 $\frac{1}{4}$	11 $\frac{1}{2}$	8 $\frac{1}{2}$
16d	3 $\frac{1}{2}$	11	8
20d	4	10	7
30d	4 $\frac{1}{2}$	9	6
40d	5	8	5

Length is overall.

COMMON BRADS

Brad Head—Diamond Point



NON-STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head Gage No.	Size	Length in.	Gage No.	Diam of Head Gage No.
2d	1	15	12	10d	3	9	6
3d	1 1/4	14	11	12d	3 1/4	9	6
4d	1 1/2	12 1/2	9 1/2	16d	3 1/2	8	5
5d	1 3/4	12 1/2	9 1/2	20d	4	6	3
6d	2	11 1/2	8 1/2	30d	4 1/2	5	2
7d	2 1/4	11 1/2	8 1/2	40d	5	4	1
8d	2 1/2	10 1/4	7	50d	5 1/2	3	0
9d	2 3/4	10 1/4	7	60d	6	2	00

Length is overall.

If brads with cupped heads are desired, order must so specify.

CASING NAILS

Deep Countersunk Cupped Head—Diamond Point



STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head Gage No.	Approx Number per lb
4d	1 1/2	14	11	489
6d	2	12 1/2	9 1/2	244
8d	2 1/2	11 1/2	8 1/2	147
10d	3	10 1/2	7 1/2	96
16d	3 1/2	10	7	73

NON-STANDARD SIZES

2d	1	15 1/2	12 1/2	
3d	1 1/4	14 1/2	11 1/2	
5d	1 3/4	14	11	
7d	2 1/4	12 1/2	9 1/2	
9d	2 3/4	11 1/2	8 1/2	
12d	3 1/4	10 1/2	7 1/2	
20d	4	9	6	
30d	4 1/2	9	6	
40d	5	8	5	

Length is overall.

STANDARD FLOORING BRADS

Deep Countersunk Head, Cupped—Diamond Point



STANDARD SIZE

Size	Length in.	Gage No.	Diam of Head Gage No.	Approx Number per lb
8d	2 $\frac{1}{2}$	10	5	105

Length is overall.

NON-STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head Gage No.
6d	2	11	6
7d	2 $\frac{1}{4}$	11	6
9d	2 $\frac{3}{4}$	10	5
10d	3	9	4
12d	3 $\frac{1}{4}$	8	3
16d	3 $\frac{1}{2}$	7	2
20d	4	6	1

Length is overall.

MACHINE FLOORING BRADS

NON-STANDARD ITEM



A brad designed especially for use in automatic machines for laying hardwood flooring. Uniform in size and head, it is 1 inch overall with No. 15 gage shank, 11 $\frac{1}{2}$ gage head, and a sharp diamond point.

PARQUET FLOORING BRADS

Deep Countersunk Head—Long Diamond Point
Bright or Cement-Coated



A flooring brad recommended for laying the finest parquet floorings. Made of stiff stock to minimize possibility of bending.

NON-STANDARD SIZES

Length in.	Gage No.	Diam of Head Gage No.
1 $\frac{1}{8}$	15	11 $\frac{1}{2}$
1 $\frac{1}{4}$	15	11 $\frac{1}{2}$
1 $\frac{1}{8}$	16	12 $\frac{1}{2}$
1 $\frac{1}{4}$	16	12 $\frac{1}{2}$

Length is overall.

PERFECT FLOORING BRADS

Deep Countersunk Head—Blunt Point



This slender, stiff nail is especially designed to permit driving through hard wood.

STANDARD SIZE

Size	Length in.	Gage No.	Diam of Head Gage No.	Approx Number per lb
8d	2 $\frac{1}{2}$	11 $\frac{1}{2}$	8 $\frac{1}{2}$	142

NON-STANDARD SIZES

3d	1 $\frac{1}{4}$	14 $\frac{1}{2}$	11 $\frac{1}{2}$	
4d	1 $\frac{1}{2}$	14	11	
5d	1 $\frac{3}{4}$	14	11	
6d	2	12 $\frac{1}{2}$	9 $\frac{1}{2}$	
7d	2 $\frac{1}{4}$	12	9	
9d	2 $\frac{3}{4}$	11	8	
10d	3	10 $\frac{1}{2}$	7 $\frac{1}{2}$	
12d	3 $\frac{1}{4}$	10	7	
16d	3 $\frac{1}{2}$	9	6	
20d	4	8	5	

Length is overall.

BARBED DOWEL PINS

Headless—Diamond Point

Made with cupped end to accommodate nail set.



NON-STANDARD SIZES

Lengths, in.: $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{3}{8}$, $1\frac{1}{2}$, $1\frac{5}{8}$, $1\frac{3}{4}$, 2

Gages (all lengths): 8, 9, 10, 11, 12

Length is overall.

FIBERBOARD NAILS

Smooth Flat Head—Needle Point



NON-STANDARD SIZES

Made of high-carbon steel. Usually ordered bethanized, but can be obtained uncoated or cement-coated.

17 gage x $\frac{3}{32}$ " head x 1", $1\frac{1}{8}$ ", $1\frac{1}{4}$ ", $1\frac{3}{8}$ ", $1\frac{1}{2}$ ", $1\frac{5}{8}$ ", $1\frac{3}{4}$ "
16 gage x $\frac{7}{64}$ " head x 2"

Length is from point to underside of head.

FINE NAILS

Flat Head—Diamond Point



	Size	Length in.	Gage No.	Diam of Head in.	Approx Num- ber per lb
STANDARD	3d fine	$1\frac{1}{8}$	15	$\frac{11}{64}$	757
NON-STANDARD	2d fine	1	$16\frac{1}{2}$	$\frac{9}{64}$	...
	2d extra fine	1	17	$\frac{1}{8}$	...
	3d extra fine	$1\frac{1}{8}$	16	$\frac{5}{32}$	...

Length is from point to underside of head.

BLUED LATH NAILS

Flat Head—Diamond Point



STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head in.	Approx Number per lb
2d	1	16 1/2	9/64	1280
3d Light	1 1/8	16	5/32	984
3d	1 1/8	15	11/64	757

NON-STANDARD SIZE

2d Light	1	17	1/8	1492
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Length is from point to underside of head.

BLUED PLASTER BOARD NAILS

Large Flat Head—Long Diamond Point



STANDARD SIZES

Length in.	Gage No.	Diam of Head in.	Approx Number per lb	Length in.	Gage No.	Diam of Head in.
1 1/4	12	3/8	310	1	13	19/64
1 1/8	13	19/64	473	1 1/2	13	19/64
1 1/4	13	19/64	425	1 3/4	13	19/64

Length is from point to underside of head.

**NAILS SHOWN ON THIS PAGE ARE
RECOMMENDED FOR USE BY THE
U. S. GYPSUM ASSOCIATION FOR
APPLYING GYPSUM BOARD PRODUCTS**

GYPSUM LATH NAILS—BLUED

**Extra Large Flat Head,
Long Diamond Point**



NON-STANDARD SIZE

1 $\frac{1}{8}$ -in. long, 13 gage, $\frac{3}{8}$ -in. diam head.

Length is from point to underside of head.

GYPSUM SHEATHING NAILS

**Hot Galvanized
Large Flat Head
Diamond Point
Barbed**



STANDARD SIZE

1 $\frac{3}{4}$ -in. long, 11 gage, $\frac{1}{16}$ -in. diam head.

Length is from point to underside of head.

GYPSUM WALLBOARD NAILS

**Cement-Coated
Flat Head
Diamond Point**



STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head in.	Approx Number per lb
4d	1 $\frac{3}{8}$	14	$\frac{7}{32}$	493
5d	1 $\frac{5}{8}$	13 $\frac{1}{2}$	$\frac{15}{64}$	366
6d	1 $\frac{7}{8}$	13	$\frac{1}{4}$	278

Length is overall.

REGULAR HEAD ROOFING NAILS

**Flat Head
Diamond Point
Barbed Shank**



STANDARD SIZES

Length in.	Gage No.	Diam of Head in.	Approx Number per lb
1	12	9/32	416
1 1/4	11	5/16	250

Length is from point to underside of head.

LARGE HEAD ROOFING NAILS

**Diamond Point
Barbed Shank**

Usually ordered galvanized.



STANDARD SIZES

Length in.	Approx Number per lb					
	10 Gage 15/32-in. Head		11 Gage 7/16-in. Head		12 Gage 3/8-in. Head	
	Bright	Galv.	Bright	Galv.	Bright	Galv.
*3/4	264	238	353	318	505	454
7/8	249	224	308	277	430	387
1	222	200	281	253	393	354
1 1/4	180	162	231	208	311	280
1 1/2	158	142	198	178	268	241
1 3/4	130	117	165	148	228	205
2	...	...	152	137	...	...

Length is from point to underside of head.

*Non-standard size.

PERFECT ROOFING NAILS

**Large Checkered Flat Head
Diamond Point—Smooth or
Barbed**



These nails are used with all kinds of prepared and composition roofing.

Length is from point to underside of head.

STANDARD SIZES

Length in.	Approx Number per lb	
	No. 11 Gage	1/2-in. Head
7/8	259	
1	235	
1 1/4	197	
1 1/2	170	
1 3/4	150	

NON-LEAK ROOFING NAILS

Large Knobbed Convex Head—Diamond Point



Used for corrugated roof work. Replaces the lead washer and lead-head nail. Diameter of head, about $\frac{1}{2}$ in.

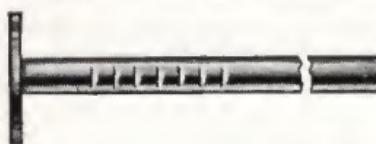
STANDARD SIZES

Length in.	Gage No.	Approx Number per lb Galvanized
$1\frac{3}{4}$	10	109
2	10	101

Non-standard lengths and gages can be furnished upon request.
Length is from point to underside of head.

SHEET ROOFING FASTENERS

For Corrugated and Tile Roofing Flat or Curved Head—Pointless



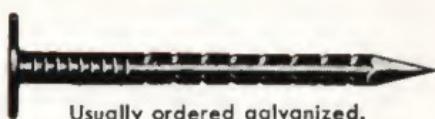
NON-STANDARD SIZES

Length in.	Approx Number per lb	
	$\frac{1}{8}$ -in. Diam	No. 10 Gage Diam
6	46	...
7	40	...
8	34	30
9	31	27
10	28	24
12	23	20

Furnished annealed or galvanized. Usually ordered galvanized.
Length is from point to underside of head.

ASBESTOS SHINGLE NAILS

**Large Flat Head
Long Diamond Point
Barbed Shank**



Usually ordered galvanized.

STANDARD SIZES				NON-STANDARD SIZES		
Length in.	Gage No.	Diam of Head in.	Approx Number per lb	Length in.	Gage No.	Diam of Head in.
			Bright			
1 $\frac{1}{4}$	11 $\frac{1}{2}$	1 $\frac{13}{32}$	247	$\frac{3}{4}$	11 $\frac{1}{2}$	1 $\frac{13}{32}$
1 $\frac{1}{2}$	11 $\frac{1}{2}$	1 $\frac{13}{32}$	210	$\frac{7}{8}$	11 $\frac{1}{2}$	1 $\frac{13}{32}$
1 $\frac{3}{4}$	11 $\frac{1}{2}$	1 $\frac{13}{32}$	183	1	11 $\frac{1}{2}$	1 $\frac{13}{32}$
2	11 $\frac{1}{2}$	1 $\frac{13}{32}$	162	1 $\frac{1}{8}$	11 $\frac{1}{2}$	1 $\frac{13}{32}$

Length is from point to underside of head.

STANDARD SHINGLE NAILS

Flat Head—Diamond Point



STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head in.	Approx Number per lb
3d	1 $\frac{1}{4}$	13	1 $\frac{19}{64}$	425
3d	1 $\frac{1}{4}$	13	1 $\frac{1}{4}$	434
3 $\frac{1}{2}$ d	1 $\frac{3}{8}$	12 $\frac{1}{2}$	9 $\frac{9}{32}$	331
4d	1 $\frac{1}{2}$	12	9 $\frac{9}{32}$	271

Order must show head diameter for 3d nails.

NON-STANDARD SIZES

5d	1 $\frac{3}{4}$	12	$\frac{9}{32}$	...
6d	2	12	$\frac{9}{32}$	...

Length is from point to underside of head.

PERFECT SHINGLE NAILS

Flat Head—Blunt Point



NON-STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head in.
3d	1 $\frac{1}{4}$	14	15/64
3 1/2 d	1 $\frac{3}{8}$	14	15/64
4d	1 $\frac{1}{2}$	13	1/4

Length is from point to underside of head.

RED CEDAR SHINGLE NAILS

Flat Head—Diamond Point



STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head in.	Approx Number per lb
3d	1 $\frac{1}{4}$	14 1/2	7/32	588
4d	1 $\frac{1}{2}$	14	7/32	453
5d	1 $\frac{3}{4}$	14	7/32	389

NON-STANDARD SIZE

6d	2	13	7/32	...
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Length is from point to underside of head.

WOOD SHINGLE NAILS

Flat Head—Diamond Point



NON-STANDARD SIZE

5d-1 $\frac{3}{4}$ -in. x 13 gage x $\frac{1}{4}$ -in. diam head.

Length is from point to underside of head.

SIDING NAILS

Small Flat Head—Diamond Point



NON-STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head in.
4d	1 $\frac{1}{2}$	14	5/32
5d	1 $\frac{3}{4}$	14	5/32
6d	2	12 $\frac{1}{2}$	3/16
7d	2 $\frac{1}{4}$	12 $\frac{1}{2}$	3/16
8d	2 $\frac{1}{2}$	11 $\frac{1}{2}$	7/32
9d	2 $\frac{3}{4}$	11 $\frac{1}{2}$	7/32
10d	3	10 $\frac{1}{2}$	1/4

Length is from point to underside of head.

SLATING NAILS

Large Flat Slightly Countersunk Head Diamond Point



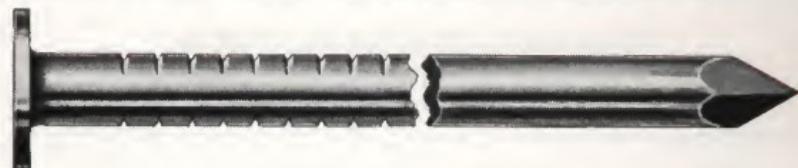
NON-STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head in.
2d	1	12	5/16
3d	1 $\frac{1}{4}$	10 $\frac{1}{2}$	3/8
4d	1 $\frac{1}{2}$	10 $\frac{1}{2}$	3/8
5d	1 $\frac{3}{4}$	10	13/32
6d	2	9	7/16

Length is overall.

GUTTER (OR EAVES TROUGH) SPIKES

Flat or Oval Head—Diamond or Chisel Point



NON-STANDARD SIZES

6½ in. long by ¼-in. gage
7 in. long by 8, ¾ in., 6, 5, and ¼-in. gages
8 in. long by 5 and ¼-in. gages
8½, 9, 10, 10¼ in. long by ¼-in. gage
Length is from point to underside of head.

SMOOTH FOUNDRY NAILS

Large Flat Head—Diamond Point



NON-STANDARD SIZES

Length in.	Gages			
	No. 8	No. 9	No. 10	No. 11
¾ to 9, incl	½-in. head	½-in. head	15/32-in. head	7/16-in. head

Some short sizes are also used as plaster board nails.

Length is from point to underside of head.

CORK INSULATION NAILS

Large Flat Head—Diamond Point

NON-STANDARD SIZES

These are large head slim nails, usually No. 8 or No. 9 gage, in lengths from 3 to 9 in., inclusive. Heads—½ in. diameter. Usually furnished galvanized or bethanized.

Length is from point to underside of head.

DUPLEX HEAD NAILS

Diamond Point



For use in scaffolds, concrete forms, and temporary wooden constructions. They are easily pulled and can be re-used.

STANDARD SIZES

Size	Gage No.	Length Overall in.	Length under Lower Head in.	Diam Top Head in.	Diam Lower Head in.	Distance between Heads in.	Approx Num-ber per lb
6d	11 1/2	2 7/64	1 3/4	3/16	17/64	1/4	156
8d	10 1/4	2 5/8	2 1/4	15/64	9/32	1/4	90
10d	9	3 3/16	2 3/4	1/4	5/16	5/16	59
16d	8	3 1/2	3	9/32	11/32	3/8	45
20d	6	4 1/64	3 1/2	5/16	3/8	3/8	28

NON-STANDARD SIZE

30d	6	4 37/64	4	5/16	3/8
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FENCE NAILS

Flat Head—Diamond Point



NON-STANDARD SIZES

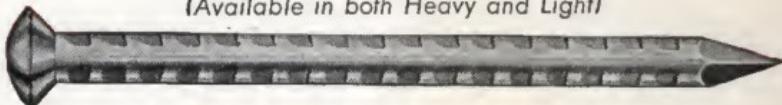
Size	Length in.	Gage No.	Diam of Head in.
5d	1 3/4	10	9/32
6d	2	10	9/32
7d	2 1/4	9	5/16
8d	2 1/2	9	5/16
9d	2 3/4	8	11/32
10d	3	7	3/8
12d	3 1/4	6	13/32
16d	3 1/2	5	7/16
20d	4	4	15/32

Length is from point to underside of head.

BARBED CAR NAILS, Heavy and Light

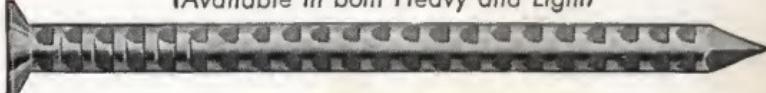
Diamond Point—Plain or Cement-Coated Oval Countersunk Head

(Available in both Heavy and Light)



Flat Countersunk Head

(Available in both Heavy and Light)



NON-STANDARD SIZES Heavy

Size	Length in.	Gage No.	Diam of Head, in.	Gage No.	Diam of Head, in.
		Plain		Cement-Coated	
4d	1 1/2	10	9/32	12	1/4
5d	1 3/4	9	5/16	10	9/32
6d	2	9	5/16	10	9/32
7d	2 1/4	8	11/32	9	5/16
8d	2 1/2	8	11/32	9	5/16
9d	2 3/4	7	3/8	8	11/32
10d	3	7	3/8	8	11/32
12d	3 1/4	6	13/32	7	3/8
16d	3 1/2	6	13/32	7	3/8
20d	4	5	7/16	6	13/32
30d	4 1/2	5	7/16	6	13/32
40d	5	4	15/32	5	7/16
50d	5 1/2	3	1/2	4	15/32
60d	6	3	1/2	4	15/32

Light

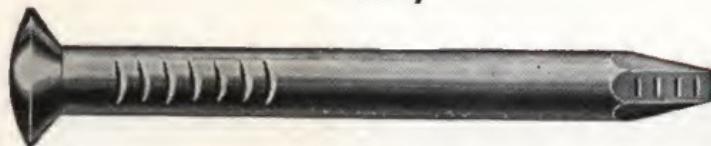
4d	1 1/2	12	1/4	13	15/64
5d	1 3/4	10	9/32	11	17/64
6d	2	10	9/32	11	17/64
7d	2 1/4	9	5/16	10	9/32
8d	2 1/2	9	5/16	10	9/32
9d	2 3/4	8	11/32	9	5/16
10d	3	8	11/32	9	5/16
12d	3 1/4	7	3/8	8	11/32
16d	3 1/2	7	3/8	8	11/32
20d	4	6	13/32	7	3/8
30d	4 1/2	6	13/32	7	3/8
40d	5	5	7/16	6	13/32
50d	5 1/2	4	15/32	5	7/16
60d	6	4	15/32	5	7/16

Length is overall.

BOAT NAILS, Heavy and Light

Oval Countersunk Head—Chisel Point

Heavy



NON-STANDARD SIZES

Size	Length in.	Gage in.	Diam of Head in.
4d	1 1/2	1/4	1/2
6d	2	1/4	1/2
8d	2 1/2	1/4	1/2
10d	3	3/8	3/4
12d	3 1/4	3/8	3/4
16d	3 1/2	3/8	3/4
20d	4	3/8	3/4

Length is overall.

Light



NON-STANDARD SIZES

Size	Length in.	Gage in.	Diam of Head in.
4d	1 1/2	3/16	13/32
6d	2	3/16	13/32
8d	2 1/2	3/16	13/32
10d	3	1/4	1/2
12d	3 1/4	1/4	1/2
16d	3 1/2	1/4	1/2
20d	4	1/4	1/2

Length is overall.

HINGE NAILS, Heavy and Light

Chisel Point

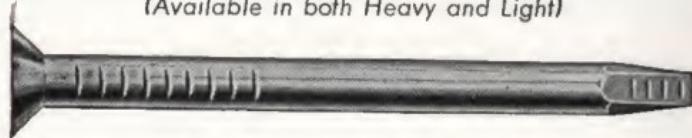
Oval Head

(Available in both Heavy and Light)



Flat Countersunk Head

(Available in both Heavy and Light)



NON-STANDARD SIZES

Heavy

Size	Length in.	Gage in.	Diam of Head in.
4d	1 $\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{2}$
6d	2	$\frac{1}{4}$	$\frac{1}{2}$
8d	2 $\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{2}$
10d	3	$\frac{3}{8}$	$\frac{3}{4}$
12d	3 $\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{4}$
16d	3 $\frac{1}{2}$	$\frac{3}{8}$	$\frac{3}{4}$
20d	4	$\frac{3}{8}$	$\frac{3}{4}$

Light

4d	1 $\frac{1}{2}$	$\frac{3}{16}$	$1\frac{3}{32}$
6d	2	$\frac{3}{16}$	$1\frac{3}{32}$
8d	2 $\frac{1}{2}$	$\frac{3}{16}$	$1\frac{3}{32}$
10d	3	$\frac{1}{4}$	$\frac{1}{2}$
12d	3 $\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{2}$
16d	3 $\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{2}$
20d	4	$\frac{1}{4}$	$\frac{1}{2}$

Oval Head—Length is from point to underside of head.

Countersunk Head—Length is overall.

COOLEK - STD
SINKER - CC CTSK.
COKKER - CC RAILROAD

CEMENT-COATED

WIRE NAILS

Cement-coated nails provide greater holding power than smooth nails and are used where this increased holding power is desirable. They are particularly suitable for use in the manufacture of cases, crates, boxes, and packages which are subjected to rough handling, or for other purposes where maximum holding power is essential.

The coating of Bethlehem nails is applied uniformly. Care is given to drawing wire of the proper temper to the correct size, so as to insure the best driving quality in the finished nails. Heads and points are accurately formed.

Packaging for cement-coated nails is similar to that for regular nails. See page 3.

When cement-coated nails other than those shown on the following pages are ordered, the length, gage, size, and type of head and point must be shown on the order.

CEMENT-COATED STANDARD NAILS

Flat Head Diamond Point



STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head in.	Approx Number per lb
3d	1 $\frac{1}{8}$	15 $\frac{1}{2}$	$\frac{3}{16}$	838
4d	1 $\frac{3}{8}$	14	$\frac{7}{32}$	493
5d	1 $\frac{5}{8}$	13 $\frac{1}{2}$	$\frac{15}{64}$	366
6d	1 $\frac{7}{8}$	13	$\frac{1}{4}$	278
7d	2 $\frac{1}{8}$	12 $\frac{1}{2}$	$\frac{17}{64}$	212
8d	2 $\frac{3}{8}$	11 $\frac{1}{2}$	$\frac{9}{32}$	144
10d	2 $\frac{7}{8}$	11	$\frac{19}{64}$	105

NON-STANDARD SIZES

2d	1	16	$\frac{11}{64}$	...
9d	2 $\frac{5}{8}$	11 $\frac{1}{2}$	$\frac{9}{32}$	...

Sizes larger than 10d are usually furnished as cement-coated countersunk nails.
Length is overall.

CEMENT-COATED COUNTERSUNK NAILS

**Flat Countersunk Head
Diamond Point**



STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head in.	Approx Number per lb
3d	1 1/8	15 1/2	11/64	923
4d	1 3/8	14	13/64	527
5d	1 5/8	13 1/2	7/32	387
6d	1 7/8	13	15/64	293
7d	2 1/8	12 1/2	1/4	223
8d	2 3/8	11 1/2	17/64	153
10d	2 7/8	11	9/32	111
12d	3 1/8	10	5/16	81
16d	3 1/4	9	11/32	64
20d	3 3/4	7	3/8	39
30d	4 1/4	6	13/32	29
40d	4 3/4	5	7/16	22
60d	5 3/4	3	1/2	13

NON-STANDARD SIZES

2d	1	16	5/32	...
9d	2 5/8	11 1/2	17/64	...
50d	5 1/4	4	15/32	...

Length is overall.

CEMENT-COATED RAILROAD NAILS

Deep Countersunk Head—Diamond Point



NON-STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head in.
2d	1	16	5/32
3d	1 1/4	15	3/16
4d	1 1/2	13 1/2	7/32
5d	1 5/8	13 1/2	7/32
6d	1 7/8	12 1/2	1/4
7d	2 1/8	12 1/2	1/4
8d	2 3/8	11	9/32
9d	2 5/8	11	9/32
10d	2 7/8	10	5/16
12d	3 1/8	10	5/16
16d	3 3/8	9	11/32
20d	3 7/8	7	3/8
30d	4 3/8	6	13/32
40d	4 7/8	5	7/16
50d	5 3/8	4	15/32
60d	5 7/8	3	1/2

Length is overall.

CEMENT-COATED EGG CASE NAILS

Large Flat Head—Diamond Point



	Size	Length in.	Gage No.	Diam of Head in.	Approx Number per lb
STANDARD	3d	1 1/8	15	7/32	732
NON-STANDARD	2d	1	16	3/16	...
	4d	1 1/2	14	1/4	...

Length is overall.

CEMENT-COATED BOX NAILS

Large Flat Head—Diamond Point



STANDARD SIZES

Size	Length in.	Gage No.	Diam of Head in.	Approx Number per lb
3d	1 $\frac{1}{8}$	16	3/16	978
4d	1 $\frac{3}{8}$	15 $\frac{1}{2}$	13/64	680
4 $\frac{1}{2}$ d	1 $\frac{1}{2}$	15	7/32	578
5d	1 $\frac{5}{8}$	15	7/32	510
6d	1 $\frac{7}{8}$	13 $\frac{1}{2}$	1/4	315
7d	2 $\frac{1}{8}$	13 $\frac{1}{2}$	1/4	280
8d	2 $\frac{3}{8}$	12 $\frac{1}{2}$	1 $\frac{7}{64}$	190
10d	2 $\frac{7}{8}$	11 $\frac{1}{2}$	1 $\frac{9}{64}$	119

NON-STANDARD SIZES

2d	1	16 $\frac{1}{2}$	11/64	...
9d	2 $\frac{5}{8}$	12 $\frac{1}{2}$	17/64	...

Length is overall.

CEMENT-COATED APPLE BOX NAILS

Large Flat Head—Diamond Point



STANDARD SIZE

Size	Length in.	Gage No.	Diam of Head in.	Approx Number per lb
5 $\frac{1}{2}$ d	1 $\frac{3}{4}$	14	15/64	388

NON-STANDARD SIZE

5d	1 $\frac{5}{8}$	14	15/64	...
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Length is overall.

CEMENT-COATED FRUIT BOX NAILS

Large Flat Head—Diamond Point



STANDARD SIZE

Size	Length in.	Gage No.	Diam of Head in.	Approx Number per lb
4d	1 3/8	15	7/32	599

Length is overall.

CEMENT-COATED ORANGE BOX NAILS

Large Flat Head—Diamond Point



STANDARD SIZE

Size	Length in.	Gage No.	Diam of Head in.	Approx Number per lb
4d	1 1/4	15	7/32	654

Length is overall.

CEMENT-COATED VENEER BOX NAILS

Large Flat Head—Needle Point



STANDARD SIZE

Size	Length in.	Gage No.	Diam of Head in.	Approx Number per lb
4d	1 1/2	14	15/64	447

Length is overall.

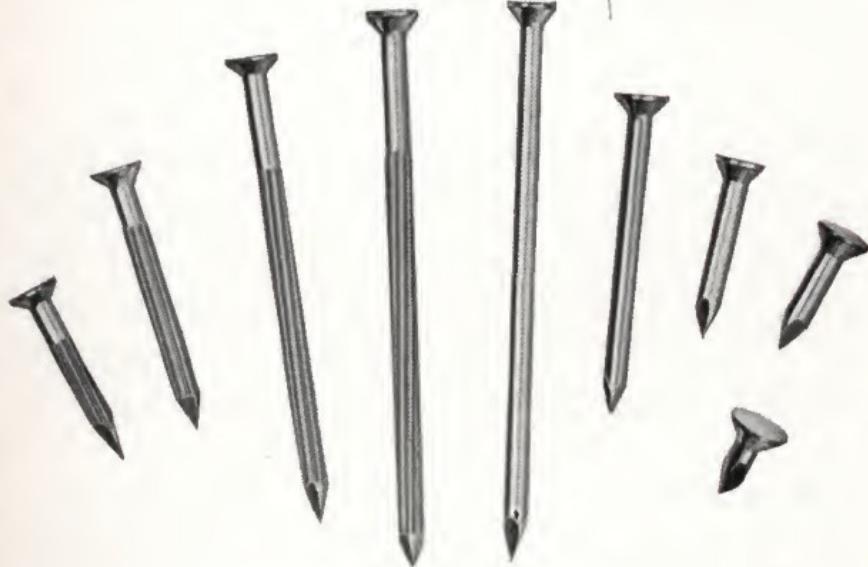
CONCRETE AND MASONRY NAILS OIL-QUENCH HARDENED

Flat Countersunk Heads

Diamond Points—Fluted or Smooth Shanks

CONCRETE NAILS

MASONRY NAILS



These nails are made of high-carbon steel, heat-treated and oil-quenched. They are designed for driving into concrete or masonry for the attachment of beading, carpet and furring strips, door bucks, and similar applications.

Length in.	No. 9 Gage $\frac{5}{16}$ in. Head	Length in.	No. 9 Gage $\frac{5}{16}$ in. Head
	Approx No. per lb		Approx No. per lb
$\frac{1}{2}$	378	$1\frac{3}{4}$	111
$\frac{3}{4}$	264	2	100
1	190	$2\frac{1}{2}$	80
$1\frac{1}{4}$	161	$2\frac{3}{4}$	71
$1\frac{1}{2}$	132	3	67
		$3\frac{1}{2}$	58

Nails shorter than 1 in. are furnished with smooth shank only.

RING-LOK

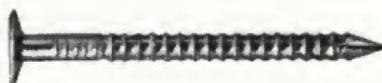
and GRIP-SCREW NAILS

They tie into the wood

Bethlehem Ring-Lok and Grip-Screw nails have greater holding-power than regular nails because they tie into the fibers and provide much of the same holding action as screws. Both types of nails are easy to drive, and on most jobs, fewer nails are needed than if smooth-shank nails were used.

Ring-Lok Nails have annular-ringed shanks, providing several times the holding power of regular nails. These rings act like barbs which "catch" the wood fibers to prevent the nail from losing its grip.

RING-LOK NAILS



Grip-Screw Nails have spiraled shanks which actually turn as the nail is driven, engaging the wood in much the same way as a screw. Thus there

is less tendency toward splitting, loosening or "working up."

GRIP-SCREW NAILS



FEWER NAILS NEEDED ON JOB

While Ring-Lok and Grip-Screw nails cost more per pound, this is more than offset by the fact that fewer of them are needed per square foot of area to be fastened . . . and they HOLD. Thus the job moves faster and labor costs are lowered.

SAVE TIME AND WORK

Both of these special shank nails, made from finest quality Bethlehem cold-heading wire, drive straight and true, and stay driven. They save time and work, minimize splitting and thus conserve materials while upgrading the quality of workmanship. These remarkable nails are being used more and more by flooring, drywall and building contractors, as well as carpenters and craftsmen, and makers of boxes, crates, and pallets.

VARIOUS SIZES AND FINISHES

Ring-Lok and Grip-Screw nails are available in many standard and non-standard sizes, bright, blued, cement-coated, and galvanized. Furnished either hardened or unhardened.



Common nail

COMMON NAIL (*Left*)

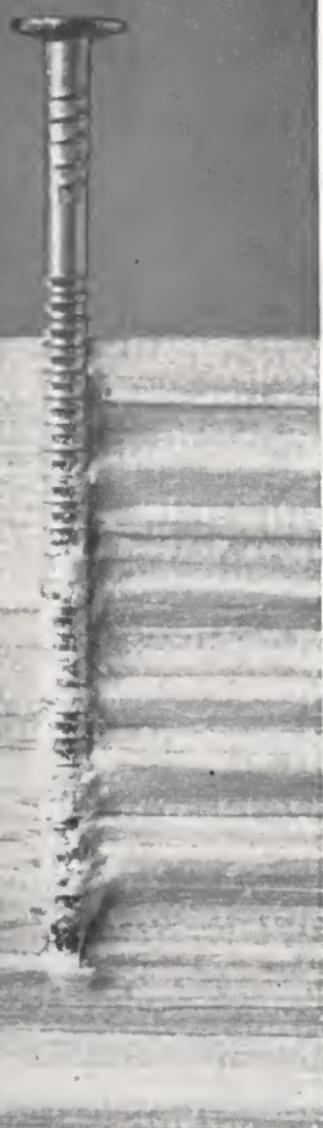
Here, magnified for clarity, is a cross-section of lumber into which an ordinary common nail has been partially driven. Note the fibers have been pushed away, leaving only friction to hold the nail in place.

RING-LOK NAIL (*Page 39—Left*)

This cross-section shows how the fibers have locked themselves into the grooves between the rings on the Ring-Lok shank, bringing strength to bear against any tendency of the nail to work up or loosen.

GRIP-SCREW NAIL (*Page 39—Right*)

Here the nail virtually wraps the wood fibers around its thread-like shank in the *downward* direction in which the nail was driven. Thus any tendency of the nail to work upward is stoutly resisted by the fibers.



Ring-Lok nail



Grip-Screw nail

RING-LOK OR GRIP-SCREW SHANKS.
Nails listed below and on the following pages are Standard sizes of Ring-Lok and Grip-Screw nails. Other sizes and types of nails can also be furnished with Grip-Screw or Ring-Lok shanks.

COMMON NAILS

Ring-Lok or Grip-Screw Flat Head—Diamond Point



Size	Length in.	Gage No.	Diam of Head in.
6d	2	11 1/2	17/64
8d	2 1/2	10 1/4	9/32
10d	3	9	5/16
12d	3 1/4	9	5/16
16d	3 1/2	8	11/32

Length is from point to underside of head.

BOX NAILS

Ring-Lok or Grip-Screw Large Flat Head—Diamond Point



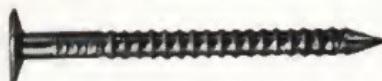
Size	Length in.	Gage No.	Diam of Head in.
6d	2	12 1/2	17/64
8d	2 1/2	11 1/2	19/64

Length is from point to underside of head.

GYPSUM DRYWALL NAILS

Rink-Lok

Flat Countersunk Head—Long Diamond Point



Length in.	Gage No.	*Diam of Head in.	
1 $\frac{1}{4}$	12 $\frac{1}{2}$	$\frac{1}{4}$	9
1 $\frac{3}{8}$	12 $\frac{1}{2}$	$\frac{1}{4}$	11
1 $\frac{1}{2}$	12 $\frac{1}{2}$	$\frac{1}{4}$	11

* Can also be furnished as a non-standard item with 1 $\frac{1}{64}$ - or 1 $\frac{9}{64}$ -in. flat countersunk head.

Length is overall.

PERFECT FLOORING NAILS

Rink-Lok or Grip-Screw

Countersunk Head—Short Diamond Point—Stiff Stock



Size	Length in.	Gage No.	Diam of Head in.
6d	2	11 $\frac{1}{2}$	1 $\frac{3}{64}$
7d	2 $\frac{1}{4}$	11 $\frac{1}{2}$	1 $\frac{3}{64}$
8d	2 $\frac{1}{2}$	11 $\frac{1}{2}$	1 $\frac{3}{64}$

Length is overall.

UNDERLAY NAILS

Ring-Lok

Flat Countersunk Head—Diamond Point



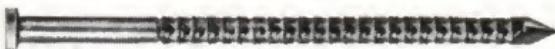
1 $\frac{1}{4}$ in. long, 14 gage, 1 $\frac{3}{64}$ -in. diam head

Length is overall.

13 | 4 X 14 ga WICKES

SHAKE NAILS

Ring-Lok
Flat Head—Diamond Point



Length in.	Gage No.	Diam of Head in.
1 $\frac{3}{4}$	14	$\frac{5}{32}$
2	14	$\frac{5}{32}$

Length is from point to underside of head.

ROOF RAFTER NAILS

Ring-Lok or Grip-Screw
Flat Countersunk Head—Diamond Point
Stiff Stock



Size	Length in.	Gage No.	Diam of Head in.
8d	2 $\frac{1}{2}$	11	$1\frac{7}{64}$
12d	3 $\frac{1}{4}$	10	$\frac{9}{32}$
16d	3 $\frac{1}{2}$	9	$\frac{5}{16}$

Length is overall.

FACE NAILS (For Siding)

Ring-Lok

Flat Head—Diamond Point



2 in. long, 14 gage, $\frac{3}{16}$ -in. diam head

Length is from point to underside of head.

PALLET NAILS

Ring-Lok or Grip-Screw

Smooth or Checkered Head—Diamond Point
Stiff Stock



Length in.	Gage No.	Diam of Head in.
1 $\frac{5}{8}$	11	$\frac{9}{32}$
2	11	$\frac{9}{32}$
2 $\frac{1}{4}$	11	$\frac{9}{32}$
2 $\frac{1}{2}$	11	$\frac{9}{32}$
3	10	$\frac{5}{16}$
3 $\frac{1}{2}$	8	$\frac{11}{32}$

Length is from point to underside of head.

MISCELLANEOUS WIRE NAILS

AND BRADS

*Sizes regularly furnished in any quantity

Bright, Flat Head, Smooth Wire Nails with Diamond Points

Gage No.	Length, in.													
	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3
20	*	*	*	*	*	*
19	*	*	*	*	*	*
18	*	*	*	*	*	*	*	*
17	*	*	*	*	*	*	*	*	*	*
16	*	*	*	*	*	*	*	*	*	*
15	*	*	*	*	*	*	*	*	*	*
14	*	*	*	*	*	*	*	*	*	*
13	*	*	*	*	*	*	*	*	*	*	*	*	*	..
12	*	*	*	*	*

Bright, Flat Head, Smooth Wire Nails with Needle Points

18	..	*	*	*	*	*	*	*	*	..	..	..	..	..
17	..	..	*	*	*	*	..	..	..	..	..	..	..	..
16	..	..	*	*	*	*	..	..	..	..	..	..	..	..
15	..	..	..	*	..	..	..	..	..	..	..	..	..	..

Bright Wire Brads with Diamond Points

20	*	*	*	*	..	..	..	..	..	..	..	..	..	..
19	..	*	*	*	*	*	..	..	..	..	..	..	..	..
18	..	*	*	*	*	*	*	*	..	..	..	..	..	..
17	..	..	*	*	*	*	*	*	*	*	..	..	..	..
16	..	..	*	*	*	*	*	*	*	*	*	*	..	..
15	..	..	..	..	*	*	*	*	*	*	*	*	..	..
14	..	..	..	..	*	*	*	*	*	*	*	*	*	..
13	..	..	..	..	..	..	..	..	..	*	*	*	*	*
12	..	..	..	..	..	..	..	..	..	*	*	*	*	*
10	..	..	..	..	..	..	..	..	..	..	..	..	*	*

Bright Wire Brads with Needle Points

18	..	..	*	*	*	..	..	..	..	..	..	..	..	..
17	..	..	..	*	*	*	*	*	*	..	..	..	..	..
16	..	..	..	..	*	*	*	*	*	..	..	..	..	..



PACKAGING OF MISCELLANEOUS WIRE NAILS AND BRADS

Miscellaneous wire nails and brads are furnished in 3-lb display cartons, each carton containing twelve $\frac{1}{4}$ -lb packages. Eighteen of these 3-lb display cartons, making a total of 54-lb net weight, are furnished in each shipping container.

Miscellaneous nails and brads can also be supplied in 1- or 5-lb packages, or shipped in 25- or 50-lb bulk cartons.

STAPLES

Standard sizes of fence and poultry netting staples shown below are manufactured in accordance with Simplified Practice Recommendation R223-47.

Staples of Non-Standard sizes, or with special features and finishes, such as metal lath, ribbon wire, and hoop staples shown on the following page, can also be furnished.

Packaging of staples is similar to that for wire nails given on page 3.

FENCE STAPLES

Polished or Galvanized

STANDARD SIZES

Length in.		Approx Number per lb No. 9 Gage
Polished	Galvanized	
* $\frac{3}{4}$	* $\frac{3}{4}$	...
$\frac{7}{8}$	* $\frac{7}{8}$	120
1	1	108
$1\frac{1}{8}$	$1\frac{1}{8}$	96
$1\frac{1}{4}$	$1\frac{1}{4}$	87
$1\frac{1}{2}$	$1\frac{1}{2}$	72
$1\frac{3}{4}$	* $1\frac{3}{4}$	65
*2	*2	...



Length is from point to underside of loop.

*Non-standard sizes.

Inside dimension between shoulders is $\frac{1}{4}$ inch.

POULTRY NETTING STAPLES

Polished or Galvanized

	Length in.	Gage No.	Approx Number per lb
STANDARD SIZE	$\frac{3}{4}$	14	488
NON-STANDARD SIZES	$\frac{7}{8}$ 1	14 14	......



Inside dimension between shoulders is $\frac{3}{16}$ inch.

Length is from point to underside of loop.

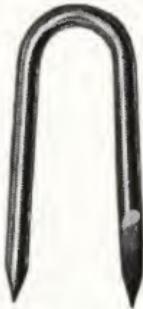
METAL LATH STAPLES

Blued, Polished or Galvanized

NON-STANDARD SIZES

Furnished in lengths of 1, $1\frac{1}{8}$, $1\frac{1}{4}$ and $1\frac{1}{2}$ in. in 14 and 15 gages. Inside dimension between shoulders is $1\frac{7}{64}$ in.

Length is from point to underside of loop.



HOOP STAPLES

**Bright or Galvanized
For applying Wire Hoops**

NON-STANDARD SIZES

Lengths, in.: $\frac{1}{2}$, $\frac{5}{8}$

Gage: 14

Inside dimension between shoulders is $\frac{3}{16}$ in.

Length is from point to underside of loop.



RIBBON WIRE STAPLES

Bright or Galvanized

NON-STANDARD SIZES

For stapling flat-twisted ribbon wire.
Cut from 9 gage wire in $1\frac{1}{2}$ -in.,
 $1\frac{3}{4}$ -in., and 2-in. lengths. Inside di-
mension between shoulders is $\frac{9}{16}$ in.

Length is from point to underside of loop.





BARBED WIRE

Bethlehem galvanized barbed wire is manufactured in accordance with Simplified Practice Recommendation R9-47, issued by the National Bureau of Standards of the U. S. Department of Commerce. It is made in styles and weights to meet practically every fencing need.

Strands are uniformly twisted and barbs are sharp, tightly wrapped, and equal distances apart. Reels are made from galvanized steel wire with double-wire bracing in the center.

Barbed wire is furnished on 80-rod spools.

INVINCIBLE



Four-point round barbs—5 in. apart, No. 14 gage. Strands—No. 12½ gage.

Furnished galvanized in 80-rod spools.

(Approximate shipping weight—87.75 lb)

BETHCO



Two-point round barbs—4 in. apart, No. 14 gage. Strands—No. 12½ gage.

Furnished galvanized in 80-rod spools.

(Approximate shipping weight—80.5 lb)

CONEMAUGH



Four-point half-round barbs—5 in. apart, No. 14 gage. Strands—No. 12½ gage.

Furnished galvanized in 80-rod spools.

(Approximate shipping weight—82.75 lb)

VIKING, FOUR POINT

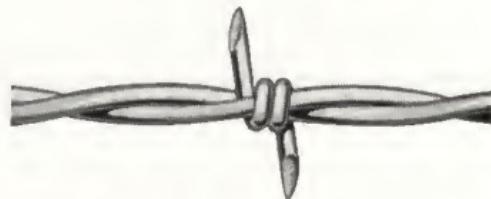


Four-point round barbs—5 in. apart, No. 14 gage. Strands—No. 13½ gage with approximately the same breaking strength as standard No. 12½ gage.

Furnished galvanized in 80-rod spools.

(Approximate shipping weight—71.0 lb)

VIKING, TWO POINT



Two-point round barbs—4 in. apart, No. 14 gage. Strands—No. 13½ gage with approximately the same breaking strength as standard No. 12½ gage.

Furnished galvanized in 80-rod spools.

(Approximate shipping weight—63.0 lb)

CAMBRIA PERFECT



Two-point flat barbs—4 in. apart, No. 12½ gage. Strands—No. 12½ gage.

Furnished galvanized in 80-rod spools.

(Approximate shipping weight—78.25 lb)

CAMBRIA SPECIAL



Two-point round barbs—4 in. apart, No. 16 gage. Strands—No. 14 gage.

Furnished galvanized in 80-rod spools.

(Approximate shipping weight—52.5 lb)

BARBLESS WIRE

GALVANIZED 2-PLY TWISTED



Commonly furnished in No. 12½ gage in 80-rod spools.

(Approximate shipping weight—70 lb)

Can also be supplied in No. 12, 13 and 14 gages. These are generally ordered in 100-lb reels.

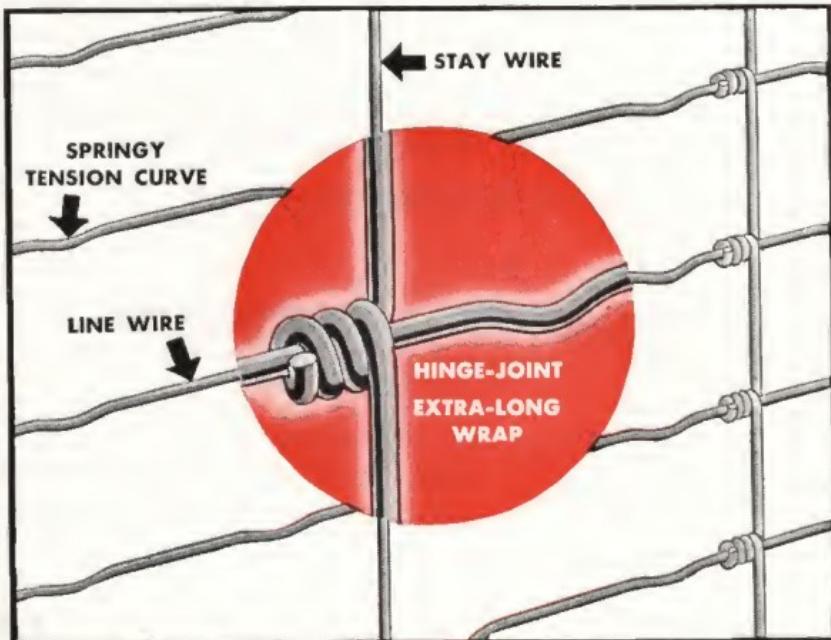
(Approximate shipping weight—101.25 lb)

BETHLEHEM FENCE

Bethlehem fence is manufactured in accordance with Simplified Practice Recommendation No. R9-47 issued by the National Bureau of Standards of the U. S. Department of Commerce.

Bethlehem fence has the cut-stay, hinge-joint construction that assures many years of trouble-free service. Made from tough, high-quality steel wire with a generous coating of zinc for protection against corrosion, the fence stays trim and serviceable year after year, and does a good job of turning farm animals and protecting crops. Springy tension curves allow for expansion and contraction due to temperature changes, and keep the wires taut at all times. The fence is easily erected, even on rolling ground.

Bethlehem fence has been proved on many farms and ranches. A size and design is available for every farm need, whether for horses, cattle, sheep, hogs, or poultry.





WIRE GAGES DESIGNATED
IN ACCOMPANYING TABLES

-  No. 9
-  No. 10
-  No. 11
-  No. 12½
-  No. 13
-  No. 14½

Bethlehem farm fence comes in 20-rod rolls and poultry and garden fence in 10-rod rolls. Sizes of wire range from No. 9 to No. 14½ gage.

BETHLEHEM FENCE FOR CATTLE, SHEEP AND HOGS

DESIGN 1155 11 BARS 55"

9"	1047	10 BARS	47"
8"	939	9 BARS	39"
7"	832	8 BARS	32"
6"	726	7 BARS	26"
5 $\frac{1}{2}$ "			
5"			
4 $\frac{1}{2}$ "			
4"			
3 $\frac{1}{2}$ "			
3"			

SPECIFICATIONS NO. 9, 11, 12½, 14½ FARM
Furnished in 20-Rod Rolls

Specifi- cation	WIRES	Design No.	No. of Hori- zontal Wires	Height in.	Approx Wt per Roll, lb
				Stay Wires 12 in. Apart	Stay Wires 6 in. Apart
No. 9 Farm	Top and Bottom Wires No. 9	1155	11	55	342
	Intermediate and Stay Wires No. 9	1047	10	47	306
		939	9	39	270
		832	8	32	236
No. 11 Farm	Top and Bottom Wires No. 9	726	7	26	202
	Intermediate and Stay Wires No. 11	1047	10	47	212
		939	9	39	188
		832	8	32	166
No. 12½ Farm	Top and Bottom Wires No. 10	726	7	26	144
	Intermediate and Stay Wires No. 12½	1047	10	47	146
		939	9	39	132
		832	8	32	116
No. 14½ Farm	Top and Bottom Wires No. 11	726	7	26	102
	Intermediate and Stay Wires No. 14½	939	9	39	...
		832	8	32	...
		726	7	26	...

BETHLEHEM FENCE FOR HORSES AND CATTLE

DESIGN 949



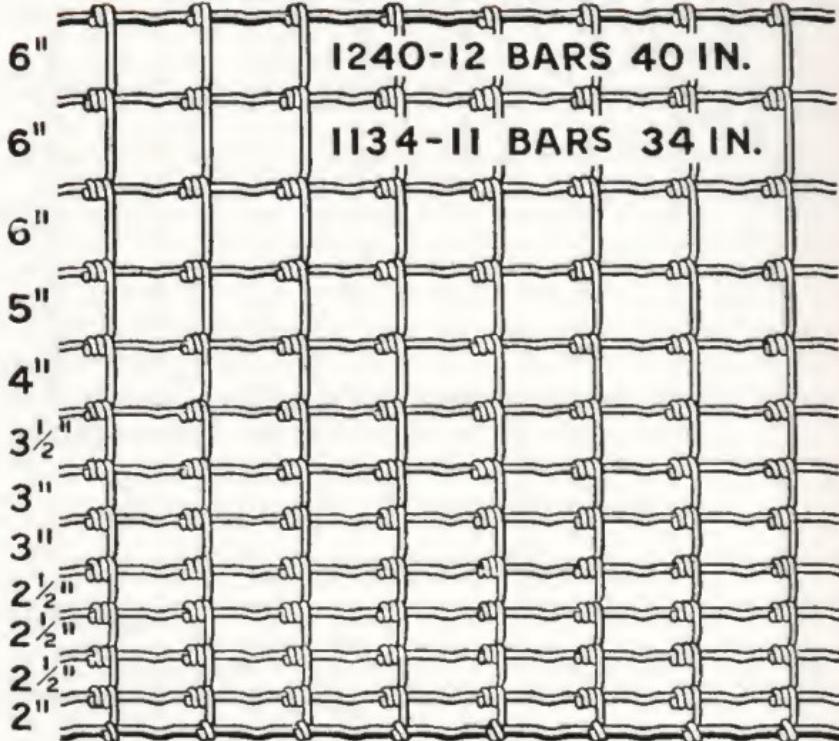
SPECIFICATIONS NO. 9, 11 AND 12½ FARM

Furnished in 20-Rod Rolls

Specification	WIRES	Design No.	No. of Horizontal Wires	Height in.	Approx Wt per Roll, lb
					Stay Wires 12 in. Apart
No. 9 Farm	Top and Bottom Wires No. 9	949	9	49	288
	Intermediate and Stay Wires No. 9	845	8	45	258
	Wires No. 9	635	6	35	194
No. 11 Farm	Top and Bottom Wires No. 9	845	8	45	180
	Intermediate and Stay Wires No. 11	635	6	35	140
	Wires No. 11				
No. 12½ Farm	Top and Bottom Wires No. 10	845	8	45	126
	Intermediate and Stay Wires No. 12½	635	6	35	100
	Wires No. 12½				

BETHLEHEM CLOSE-MESH HOG AND CATTLE FENCE

DESIGN 1346-13 BARS 46 IN.



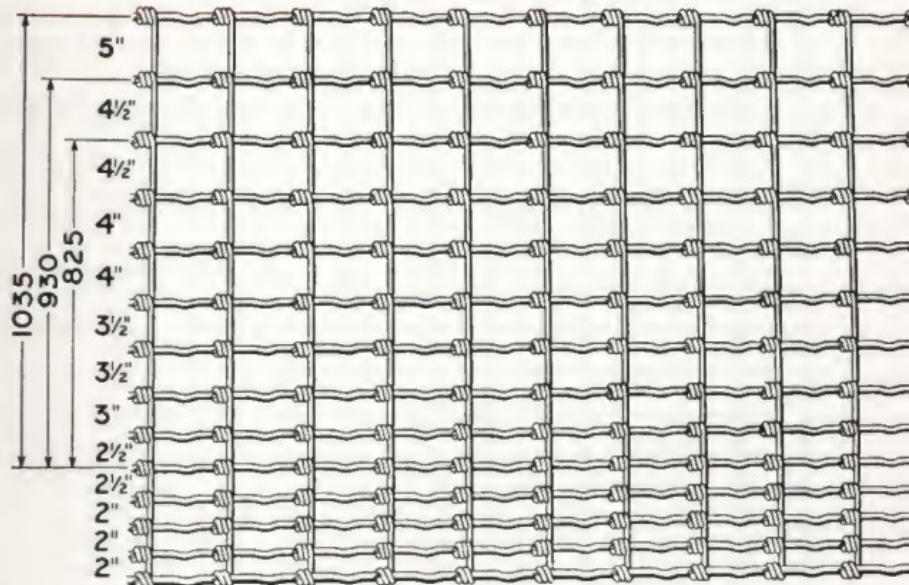
SPECIFICATION NO. 12½ CM

Furnished in 20-Rod Rolls

WIRES	Design No.	No. of Horizontal Wires	Height in.	Approx Wt per Roll, lb
				Stay Wires 6 in. Apart
Top and Bottom Wires No. 10	1346	13	46	238
Intermediate and Stay Wires No. 12½	1240	12	40	218
	1134	11	34	196

BETHLEHEM WOLF-PROOF FENCE

DESIGN 1443 - 14 BARS 43"



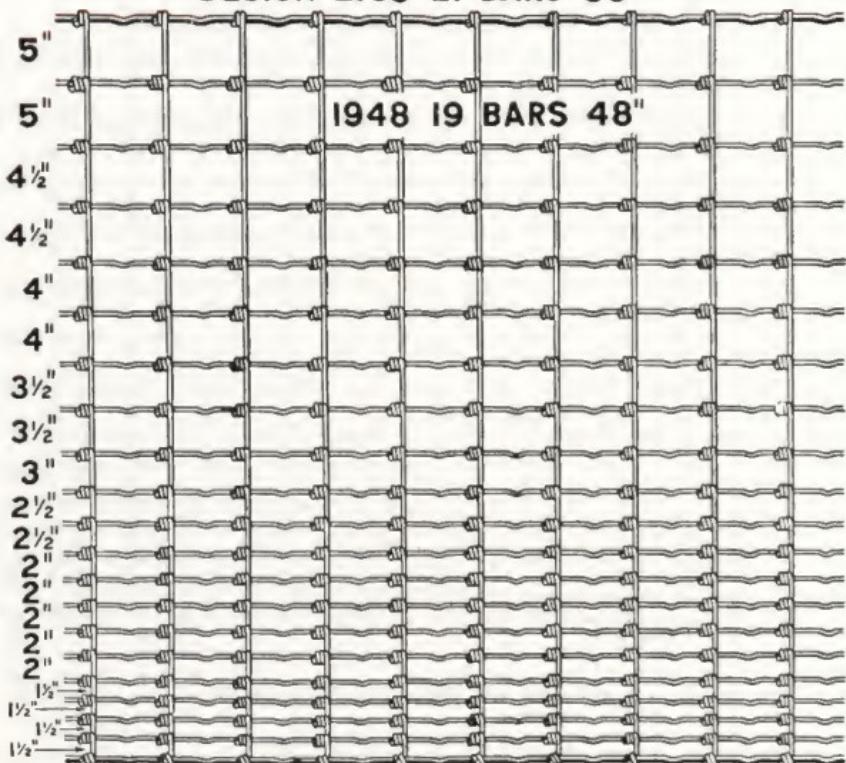
SPECIFICATION NO. 14½ WP

Furnished in 20-Rod Rolls

WIRES	Design No.	No. of Horizontal Wires	Height in.	Approx Wt per Roll, lb	
				Stay Wires 12 in. Apart	Stay Wires 6 in. Apart
Top & Bottom Wires No. 11	1443	14	43	...	144
Intermediate and Stay Wires No. 14½	1035	10	35	88	110
	930	9	30	...	100
	825	8	25	72	88

BETHLEHEM POULTRY AND GARDEN FENCE

DESIGN 2158 21 BARS 58"



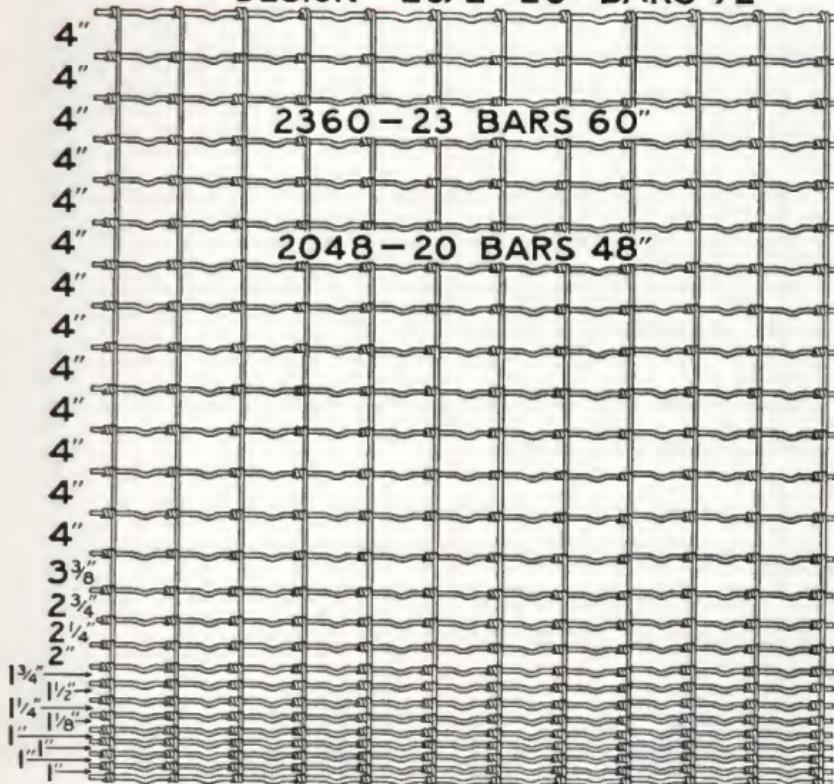
SPECIFICATIONS NOS. 13 AND 14 1/2 P & G

Furnished in 10-Rod Rolls

Specifi- cation	WIRES	Design No.	No. of Hori- zontal Wires	Height in.	Approx Wt per Roll, lb
					Stay Wires 6 in. Apart
No. 13 P & G	Top and Bottom Wires No. 11 Intermediate and Stay Wires No. 13	2158 1948	21 19	58 48	144 128
No. 14 1/2 P & G	Top and Bottom Wires No. 11 Intermediate and Stay Wires No. 14 1/2	2158 1948	21 19	58 48	104 93

**BETHLEHEM
CHICK FENCE**

DESIGN 2672-26 BARS 72"



SPECIFICATION NO. 14½

Furnished in 10-Rod Rolls

Specification	WIRES	Design No.	No. of Horizontal Wires	Height in.	Approx Wt per Roll, lb
					Stay Wires 6 in. Apart
No. 14½ Chick	Top and Bottom Wires No. 11 Intermediate and Stay Wires No. 14½	2672 2360 2048	26 23 20	72 60 48	127 109 95

FENCE POSTS

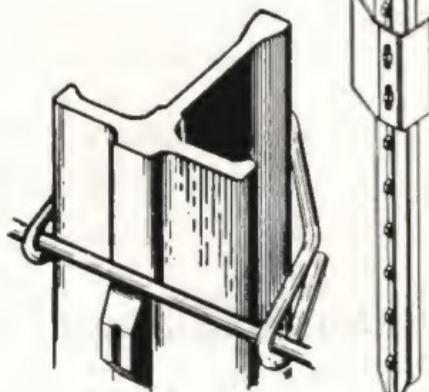
STUDDDED T POST

This $1\frac{3}{8}$ - x $1\frac{3}{8}$ -in. Studded T post possesses unusual strength and durability. It is a top-quality post that keeps fence tight and trim.

Fence line wires are supported by studs, 2 to $2\frac{3}{8}$ in. apart, which are rolled into the post from top to bottom for added stiffness. Easy-to-apply wire clips lock fence wires firmly in place, preventing up-and-down movement but allowing free movement in a horizontal direction.

The firmly attached anchor plate helps to keep the post firm and erect. Painted green for weather protection, the Studded T is an easy post to drive and to relocate.

Easy-to-apply wire clips
lock fence wires firmly
in place.



Standard Length, ft	5	$5\frac{1}{2}$	6	$6\frac{1}{2}$	7	$7\frac{1}{2}$	8
Weight, lb	7.32	7.99	8.65	9.32	9.98	10.65	11.31

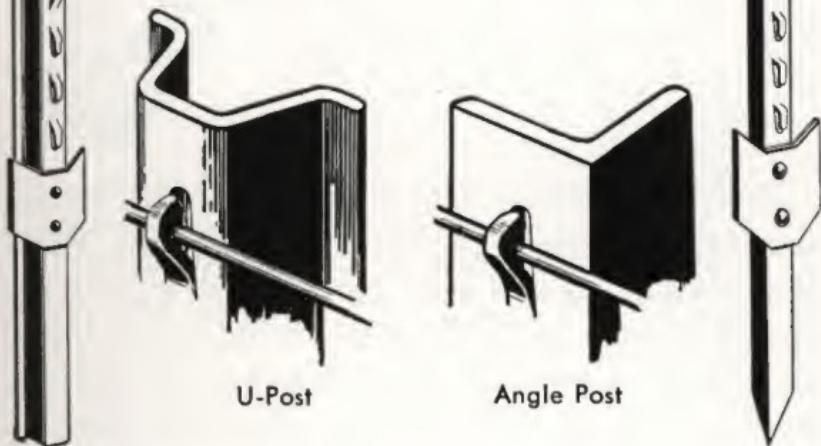
SELF-FASTENER FENCE POSTS

The Flanged U post (left) and the Angle post (right) are sturdy, economical posts with the popular self-fastening feature. Both posts are easy to drive and relocate and both give long service.

Wide anchor plates keep the posts upright at all times. Fence wires are attached behind closely spaced lugs on the posts. Both posts are painted green.

Flanged U posts are $\frac{1}{8}$ in. deep, $1\frac{5}{16}$ in. wide overall, and $\frac{3}{64}$ in. in thickness.

Angle posts are $1\frac{1}{4}$ x $1\frac{1}{4}$ x $\frac{3}{64}$ in.



Standard Length, ft	5	$5\frac{1}{2}$	6	$6\frac{1}{2}$	7	$7\frac{1}{2}$	8
Weight, lb	6.20	6.76	7.32	7.88	8.44	9.00	9.56

SILVER STAR BALE TIES

SINGLE LOOP



Bethlehem Silver Star single-loop bale ties are made from a special grade of annealed wire. These ties are pliable and soft for easy tying, yet are strong enough to hold tightly compressed bales. Furnished with a hard oil finish which retards rusting. Also available with a galvanized finish.

Bale ties are shipped with a spiral galvanized wire wrap, originated by Bethlehem, which protects the ties from damage.

Bale ties are furnished in bundles and gages as indicated in the table on the following page.

SILVER STAR BALE TIES—SINGLE LOOP

Length ft	Approx Wt in lb per Bundle of:									
	125 Ties		250 Ties			500 Ties				
	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
	11	12	13	14	14½	15	15½	16	16½	
Ga.	Ga.	Ga.	Ga.	Ga.	Ga.	Ga.	Ga.	Ga.	Ga.	
3	...	25.4	18.9	14.2	...	23.0	...	17.4	...	
3½	...	29.1	21.7	16.4	...	26.6	...	20.0	...	
4	...	32.8	24.5	18.5	...	30.0	...	22.6	...	
4½	...	36.5	27.3	20.6	...	33.4	...	25.2	...	
5	...	40.2	30.2	22.8	41.0	36.8	32.2	27.6	24.0	
5½	...	43.9	33.0	24.9	45.0	40.4	35.2	30.2	26.4	
6	...	47.6	35.8	27.0	48.8	43.8	38.2	32.8	28.6	
6½	...	51.3	38.6	29.2	52.6	47.2	41.2	35.4	31.0	
7	...	55.1	41.4	31.3	56.4	50.8	44.2	38.0	33.2	
7½	...	58.8	44.2	33.4	60.4	54.2	47.2	40.6	35.4	
8	...	62.5	47.0	35.6	64.2	57.6	50.2	43.4	37.8	
8¼	...	...	...	36.6	...	59.4	...	...	38.8	
8½	...	66.2	49.8	37.7	68.0	61.0	53.2	46.0	40.0	
9	...	69.9	52.6	39.8	71.8	64.6	56.2	48.6	42.2	
9¼	...	...	...	...	...	66.2	...	50.0	...	
9½	...	73.6	55.4	42.0	75.8	68.0	59.2	51.2	44.6	
10	...	77.3	58.2	44.1	79.6	71.4	62.2	53.8	46.8	
10¼	...	...	...	45.2	81.6	73.2	63.8	55.2	...	
10½	...	81.0	60.9	46.2	83.4	75.0	65.2	56.4	...	
11	55.3	84.7	63.7	48.4	87.4	78.4	68.2	59.0	...	
11½	57.7	88.5	66.5	50.5	91.2	81.8	71.2	61.6	...	
12	60.1	92.2	69.3	52.6	95.0	85.2	74.4	64.2	...	
12½	62.5	95.9	72.1	54.8	98.8	88.8	77.4	66.8	...	
13	64.9	99.6	74.9	56.9	102.8	92.2	80.4	69.4	...	
13½	67.4	103.3	77.7	59.0	106.6	95.6	83.4	...	...
14	69.8	107.0	80.5	61.2	110.4	99.2	86.4	...	...
14½	72.2	110.7	83.3	63.3	114.2	...	89.4	...	...
15	74.6	114.4	86.1	65.4	118.2	...	92.4	...	...

BALING WIRE

FOR AUTOMATIC HAY BALERS



Bethlehem baling wire is a special grade of annealed wire manufactured in accordance with the Specifications of the American Society of Agricultural Engineers. It is soft and pliable, yet has plenty of strength to keep bales tied even when roughly handled. It is furnished in rewound coils of standard weights and dimensions to fit the specifications for each type of automatic baler. Packed in sturdy cartons.

AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS SPECIFICATIONS

	Package 3150	Package 6500	Interim Package
Bethlehem Steel Wire Gage	$14\frac{1}{2}$	$14\frac{1}{2}$	$14\frac{1}{2}$
Weight per Coil, lb, approx	$48\frac{1}{2}$	100	100
Feet per Coil, approx	3,150	6,500	6,500
Coil—Outside Diam, in., approx	$9\frac{7}{8}$	$13\frac{1}{4}$	18
Inside Diam, in., approx	3	$8\frac{1}{8}$	12
Width, in., approx	$3\frac{3}{4}$	6	$3\frac{1}{2}$
Packing, Coils per Carton	2	1	1

FENCE QUALITY WIRE

ANNEALED OR GALVANIZED



This general-purpose wire is useful for bundling, tying, and fence repairs. It is put up in merchant trade coils of 100 lb each. A coil may contain one or more pieces of wire. Gages range from No. 6 to No. 18, either annealed or galvanized.

GALVANIZED BRACE WIRE

Galvanized brace wire is fence quality wire furnished in No. 8 and No. 9 gages, in 5-lb coils, packed 20 coils to the bundle of 100 lb. Sold in even 100-lb quantities or multiples.

LATH-TIE WIRE

This is a special grade of soft galvanized wire for tying metal lath in position.

Furnished only in 18 gage and usually ordered in lengths from 28 to 42 in. Straight wires are bent in the middle to form a V-shaped 25-lb bundle that is convenient for a lather to carry. Packed in sturdy cartons, each containing a 25-lb bundle.



STONE WIRE

Stone wire is suitable for many tying and bracing jobs around the home and on the farm. It is furnished annealed or galvanized.

Put up in 12-lb coils having an inside diameter of approximately 7 in. and consisting usually of several pieces. Furnished in gages from 12 to 20 and packed in cartons of five coils each.

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SOLID WIRE CLOTHES LINE

BETHANIZED



Bethanized solid wire clothes lines are made from 9- or 10-gage wire. They are put up in coils of 100 ft, or two coils of 50 ft connected as a 100-ft length. These can be sold as 100-ft coils or cut apart when 50-ft coils are wanted. Regularly packed in a fiber carton containing one dozen coils.

The bethanized coating assures a long service life under all weather conditions.

ESTIMATED WEIGHT PER DOZEN COILS

Gage No.	Length ft	Net Weight per Dozen, lb	Gross Weight per Dozen in Cartons, lb
9	100	70	72
10	100	58	60

DECIMAL EQUIVALENTS OF FRACTIONS OF AN INCH

1-64	.015625	1-32	.03125			
3-64	.046875			1-16	.0625	
5-64	.078125					
7-64	.109375	3-32	.09375			
9-64	.140625				1-8	.125
11-64	.171875	5-32	.15625			
13-64	.203125			3-16	.1875	
15-64	.234375	7-32	.21875			
17-64	.265625					1-4
19-64	.296875	9-32	.28125			.25
21-64	.328125			5-16	.3125	
23-64	.359375	11-32	.34375			
25-64	.390625				3-8	.375
27-64	.421875	13-32	.40625			
29-64	.453125			7-16	.4375	
31-64	.484375	15-32	.46875			
33-64	.515625					1-2
35-64	.546875	17-32	.53125			.5
37-64	.578125			9-16	.5625	
39-64	.609375	19-32	.59375			
41-64	.640625				5-8	.625
43-64	.671875	21-32	.65625			
45-64	.703125			11-16	.6875	
47-64	.734375	23-32	.71875			
49-64	.765625					3-4
51-64	.796875	25-32	.78125			.75
53-64	.828125			13-16	.8125	
55-64	.859375	27-32	.84375			
57-64	.890625				7-8	.875
59-64	.921875	29-32	.90625			
61-64	.953125			15-16	.9375	
63-64	.984375	31-32	.96875			
	1.000000					

SIZES OF WIRE

7-0



6-0



5-0



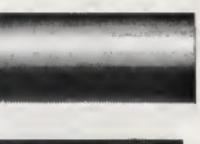
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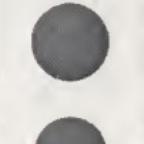
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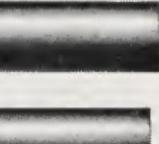
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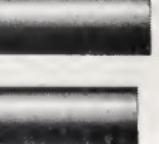
1



2



3



4



•	20
•	19
•	18
•	17
•	16½
•	16
•	15½
•	15
•	14½
•	14
•	13½
•	13
•	12½
•	12
•	11½
•	11
•	10½
•	10
•	9½
•	9
•	8
•	7
•	6
•	5

SIZES OF WIRE

*Gage	Decimal Size of Wire in.	Area sq in.	Lb per ft	Lb per mile	Ft per lb
7-0	$\frac{1}{2}''$.5000	.1963	.6668	3521 1.500
	.4900	.1886	.6404	3381 1.562	
	$\frac{15}{32}''$	.46875	.1726	.5861 3094 1.706
6-0	$\frac{13}{32}''$	.4615	.1673	.5681 2999 1.76
5-0	$\frac{7}{16}''$	.4375	.1503	.5105 2696 1.959
	.4305	.1456	.4943	2610 2.023	
	$\frac{13}{32}''$	.40625	.1296	.4402 2324 2.272
4-0	$\frac{3}{8}''$	.3938	.1218	.4136 2184 2.418
3-0	$\frac{5}{16}''$	.3750	.1104	.3751 1980 2.666
	.3625	.1032	.3505	1851 2.853	
	$\frac{11}{32}''$	.34375	.09281	.3152 1664 3.173
2-0	$\frac{9}{32}''$	.3310	.08605	.2922 1543 3.422
1-0	$\frac{5}{16}''$	.3125	.07670	.2605 1375 3.839
	.3065	.07378	.2506	1323 3.991	
	.2830	.06290	.2136	1128 4.681	
1	$\frac{9}{32}''$	.28125	.06213	.2110 1114 4.74
2	$\frac{1}{4}''$	.2625	.05412	.1838 970.4 5.441
3	$\frac{1}{4}''$	.2500	.04909	.1667 880.2 5.999
4	$\frac{1}{4}''$	.2437	.04664	.1584 836.4 6.313
	$\frac{1}{4}''$	.2253	.03987	.1354 714.8 7.386
5	$\frac{7}{32}''$	.21875	.03758	.1276 673.9 7.835
	.2070	.03365	.1143	603.4 8.750	
	.1920	.02895	.09832	519.2 10.17	
6	$\frac{3}{16}''$	.1875	.02761	.09377 495.1 10.66
7	$\frac{1}{8}''$	.1770	.02461	.08356 441.2 11.97
8	$\frac{1}{8}''$	.1620	.02062	.07000 369.6 14.29
9	$\frac{5}{32}''$	.15625	.01917	.06517 343.8 15.36
	$\frac{1}{8}''$	.1483	.01727	.05866 309.7 17.05
10	$\frac{1}{8}''$	.1350	.01431	.04861 256.7 20.57
11	$\frac{1}{8}''$	.125	.01227	.04168 220.0 24.00
12	$\frac{1}{8}''$	.1205	.01140	.03873 204.5 25.82
	$\frac{1}{8}''$	.1055	.008742	.02969 156.7 33.69
13	$\frac{3}{32}''$	.09375	.006903	.02344 123.8 42.66
	.0915	.006576	.02233	117.9 44.78	
	.0800	.005027	.01707	90.13 58.58	
14	$\frac{1}{16}''$	.0720	.004072	.01383 73.01 72.32
15	$\frac{1}{16}''$	.0625	.003068	.01042 55.01 95.98
16	$\frac{1}{16}''$	.0540	.002290	.007778 41.07 128.60
17	$\frac{1}{16}''$	.0475	.001772	.006018 31.77 166.20
18	$\frac{1}{16}''$	.0410	.001320	.004484 23.67 223.00
19	$\frac{1}{16}''$	.0348	.0009511	.003230 17.05 309.60

* Bethlehem Steel Wire Gage (formerly Washburn & Moen).

TABLE OF COMPARATIVE SIZES

WIRE GAGE—In Decimals of an Inch

No. of Wire Gage	*Bethlehem Steel Wire Gage	Birmingham or Stubbs B. W. G.	Brown & Sharpe	British Imperial or English Legal Standard S. W. G.	Paris or J. de P.
7-0	.4900	...		.500	...
6-0	.4615	...	.58000	.464	...
5-0	.4305	.500	.51650	.432	...
4-0	.3938	.454	.46000	.400	...
3-0	.3625	.425	.40964	.372	...
2-0	.3310	.380	.36480	.348	.0157
0	.3065	.340	.32486	.324	.0196
1	.2830	.300	.28930	.300	.0236
2	.2625	.284	.25763	.276	.0275
3	.2437	.259	.22942	.252	.0314
4	.2253	.238	.20431	.232	.0354
5	.2070	.220	.18194	.212	.0393
6	.1920	.203	.16202	.192	.0433
7	.1770	.180	.14428	.176	.0472
8	.1620	.165	.12849	.160	.0512
9	.1483	.148	.11442	.144	.0551
10	.1350	.134	.10190	.128	.0590
11	.1205	.120	.09074	.116	.0630
12	.1055	.109	.08081	.104	.0708
13	.0915	.095	.07196	.092	.0787
14	.0800	.083	.06408	.080	.0866
15	.0720	.072	.05707	.072	.0944
16	.0625	.065	.05082	.064	.1062
17	.0540	.058	.04526	.056	.1181
18	.0475	.049	.04030	.048	.1338
19	.0410	.042	.03589	.040	.1535
20	.0348	.035	.03196	.036	.1732
21	.03175	.032	.02846	.032	.1929
22	.0286	.028	.02535	.028	.2126
23	.0258	.025	.02257	.024	.2322
24	.0230	.022	.02010	.022	.2520
25	.0204	.020	.01790	.020	.2756
26	.0181	.018	.01594	.018	.2992
27	.0173	.016	.01419	.0164	.3228
28	.0162	.014	.01264	.0148	.3464
29	.0150	.013	.01126	.0136	.3700
30	.0140	.012	.01002	.0124	.3937
31	.0132	.010	.00893	.0116	...
32	.0128	.009	.00795	.0108	...
33	.0118	.008	.00708	.0100	...
34	.0104	.007	.00630	.0092	...
35	.0095	.005	.00561	.0084	...
36	.0090	.004	.00500	.0076	...
37	.0085	...	.00445	.0068	...
38	.0080	...	.00396	.0060	...
39	.0075	...	.00353	.0052	...
40	.0070	...	.00314	.0048	...

* Formerly Washburn & Moen Gage

METRIC CONVERSION FACTORS

U. S. TO METRIC

Pounds (Avoirdupois) × .45359	= Kilograms
Tons (2000 pounds) × .90718	= Metric Tons
Tons (2240 pounds) × 1.01605	= Metric Tons
Inches × 2.54001	= Centimeters
Inches × 25.4001	= Millimeters
Feet × .304801	= Meters
Square Inches . . . × 6.45163	= Square Centimeters
Square Feet . . . × .0929	= Square Meters
Cubic Inches . . . × 16.38716	= Cubic Centimeters
Cubic Feet . . . × .02832	= Cubic Meters
Pounds per Foot . . × 1.48816	= Kilos per Meter
Ounces per Square Foot × .030515	= Grams per Square Centimeter
Ounces per Square Foot × 305.15	= Grams per Sq. Meter
Pounds per Square Inch × .07031	= Kilograms per Square Centimeter
Pounds per Square Inch × .0007031	= Kilograms per Square Millimeter
Pounds per Square Foot × 4.88241	× Kilograms per Square Meter
Pounds per Cubic Foot × 16.01837	× Kilograms per Cubic Meter

METRIC TO U. S.

Kilograms × 2.20462	= Pounds (Avoirdupois)
Metric Tons × 1.10231	= Tons (2000 pounds)
Metric Tons × .98421	= Tons (2240 pounds)
Centimeters × .3937	= Inches
Millimeters × .03937	= Inches
Meters × 3.280833	= Feet
Square Centimeters × .155	= Square Inches
Square Meters . . . × 10.76387	= Square Feet
Cubic Centimeters × .06102	= Cubic Inches
Cubic Meters . . . × 35.31445	= Cubic Feet
Kilograms per Meter × .67197	= Pounds per Foot
Grams per Square Centimeter × 32.771	= Ounces per Square Ft
Grams per Sq Meter × .0032771	= Ounces per Square Ft
Kilograms per Square Centimeter × 14.2234	= Pounds per Sq Inch
Kilograms per Square Millimeter × 1422.34	= Pounds per Sq Inch
Kilos per Sq Meter × .20482	= Pounds per Sq Foot
Kilos per Cu Meter × .06243	= Pounds per Cubic Ft

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BETHLEHEM MAKES A COMPLETE LINE OF BOLTS, NUTS, AND OTHER FASTENERS

Bethlehem bolts have smooth-fitting threads, straight shanks, and accurately formed heads. Machine bolts, carriage bolts, lag bolts, plow bolts, and other standard fasteners are available for every purpose.

Bethlehem's large plant at Lebanon, Pa., is devoted entirely to the manufacture of fasteners and related products. Bethlehem also has three modern fasteners plants on the Pacific Coast—at South

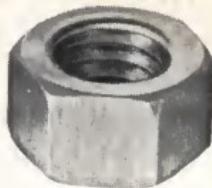


San Francisco, Los Angeles, and Seattle.

Bethlehem maintains large stocks of standard fasteners in a complete range of styles and sizes for fast delivery.



FLAT-FACED
SQUARE NUT



DOUBLE-CHAMFERED
HEX NUT



WASHER-FACED
HEX NUT



MACHINE BOLT



LAG BOLT



CARRIAGE BOLT

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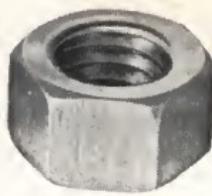


San Francisco, Los Angeles, and Seattle.

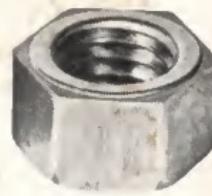
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FLAT-FACED
SQUARE NUT



DOUBLE-CHAMFERED
HEX NUT



WASHER-FACED
HEX NUT



MACHINE BOLT



LAG BOLT



CARRIAGE BOLT

BETHLEHEM STEEL COMPANY

GENERAL OFFICES: BETHLEHEM, PA.

Sales Offices

Albany 7	90 State St.
Atlanta 1	55 Marietta St.
Baltimore 3	300 St. Paul Place
Bethlehem	Bethlehem Trust Bldg., Broad & Main Sts.
Boston 10	75 Federal St.
Buffalo 3	10 Lafayette Square
Chicago 1	Prudential Plaza
Cincinnati 2	4th and Walnut Sts.
Cleveland 13	50 Public Square
Columbus 15	17 South High St.
Dallas 2	1412 Main St.
Dayton 2	120 West Second St.
Detroit 2	3044 West Grand Blvd.
Greensboro, N. C.	101 North Elm St.
Houston 1	7100 Clinton Drive
Indianapolis 4	5 East Market St.
Jacksonville 3, Fla.	Prudential Bldg.
Johnstown, Pa.	119 Walnut St.
Milwaukee 2	735 North Water St.
New Haven 10	205 Church St.
New York 22	375 Park Ave.
Philadelphia 3	1617 Pennsylvania Blvd.
Pittsburgh 22	Oliver Bldg., Mellon Square
Providence 3	111 Westminster St.
Richmond 19, Va.	219 East Broad St.
St. Louis 5	South Central and Bonhomme Aves.
St. Paul 1	332 Minnesota St.
Springfield 3, Mass.	44 Vernon St.
Syracuse 2	420 East Genesee St.
Toledo 2	811 Madison Ave.
Tulsa 19	1810 South Baltimore Ave.
Washington 6, D. C.	1000 Sixteenth St., N. W.
York	25 North Duke St.

PACIFIC COAST DIVISION

Los Angeles	6000 South Boyle Ave., Vernon
Phoenix	3550 North Central Ave.
Portland 5	1010 Southwest Fourteenth Ave.
Salt Lake City 11	455 East Fourth South
San Francisco 19	100 California St.
Seattle 4	4045 Delridge Way
Spokane 4	West 725 Sprague Ave.

Export Sales

BETHLEHEM STEEL EXPORT CORPORATION

25 BROADWAY, NEW YORK 4, N. Y.



**\ BETHLEHEM
WIRE NAILS
AND
STAPLES**

EXTRAS

STANDARD STOCK SIZES

EFFECTIVE AUGUST 13, 1947

(Cancels all previous extras)

Subject to change without notice



**BETHLEHEM STEEL COMPANY
GENERAL OFFICES : BETHLEHEM, PA.**

BETHLEHEM STEEL COMPANY
NAILS & STAPLES


STANDARD STOCK SIZES
Extras per 100 Pounds

COMMON		CASING		
Size		Size		
2d	\$2.35	4d	\$1.50	
3d	1.60	6d	1.10	
4d	1.20	8d	1.00	
5d	1.10	10d	.95	
6d	1.00	16d	.85	
7d	.90			
8d	.85			
9d	.80			
10d	.60			
12d	.60			
16d	.55			
20d	.55			
30d	.55			
40d	.55			
50d	.55			
60d	.50			
SMOOTH BOX		FLOORING BRADS		
		STANDARD POINT		
3d	\$1.80	8d	\$1.05	
4d	1.55			
5d	1.50			
6d	1.40			
7d	1.30			
8d	1.10			
10d	.95			
16d	.80			
20d	.75			
FINISHING		PERFECT FLOORING BRADS		
		BLUNT POINT		
3d	\$2.30	8d	\$1.60	
4d	1.80			
6d	1.20			
8d	1.00			
10d	.90			
WIRE SPIKES		STANDARD SHINGLE		
FLAT COUNTERSUNK HEAD,		3d	1 $\frac{1}{4}$ " hd.	\$2.50
DIAMOND POINT		3d	$\frac{1}{4}$ " hd.	1.80
7" x $\frac{5}{16}$ " dia.	\$.90	3 $\frac{1}{2}$ d	$\frac{3}{8}$ " hd.	1.65
8" x $\frac{5}{16}$ " dia.	.90	4d	$\frac{3}{8}$ " hd.	1.50
8" x $\frac{3}{8}$ " dia.	.80			
10" x $\frac{3}{8}$ " dia.	.80			
BLUED PLASTER BOARD		ASBESTOS SHINGLE		
		1 $\frac{3}{8}$" HEAD, LONG DIAMOND		
		POINT, BARBED SHANK		
		1 $\frac{1}{4}$ " x 11 $\frac{1}{2}$ ga.	\$2.50	
		1 $\frac{1}{4}$ " x 11 $\frac{1}{2}$ ga.	2.25	
		1 $\frac{1}{4}$ " x 11 $\frac{1}{2}$ ga.	2.00	
		2" x 11 $\frac{1}{2}$ ga.	1.80	
SMOOTH SHANK		FINE		
		3d	\$2.10	
LONG DIAMOND POINT				
1 $\frac{1}{8}$ " x 13, 1 $\frac{1}{64}$ " hd.	\$3.00			
1 $\frac{1}{4}$ " x 13, 1 $\frac{1}{64}$ " hd.	2.75			
1 $\frac{1}{4}$ " x 12, $\frac{5}{8}$ " hd.	3.00			
BLUED LATH		STERILIZED		
2d		2d	\$3.90	
3d		3d	2.45	
		3d Light	3.00	

NAILS & STAPLES

STANDARD STOCK SIZES

Extras per 100 Pounds

LARGE HEAD ROOFING

BARBED SHANK

Length	10 Gage 1 1/2 Head	11 Gage 7/16 Head	12 Gage 5/8 Head
7/8"	\$2.25	\$2.50	\$3.00
1"	2.05	2.40	2.75
1 1/4"	1.75	2.25	2.50
1 1/2"	1.55	1.90	2.25
1 3/4"	1.40	1.70	2.00
2"	.....	1.55	.....

REGULAR HEAD ROOFING

BARBED SHANK

1" x 12	\$2.00
1 1/4" x 11	1.75

CEMENT COATED NAILS

STANDARD FLAT HEAD

3d	\$2.65
4d	1.80
5d	1.70
6d	1.50
7d	1.45
8d	1.35
10d	1.15

BOX

3d	\$2.80
4d	2.25
5d	2.15
6d	1.55
7d	1.50
8d	1.30
10d	1.20

ORANGE BOX LARGE FLAT HEAD

4d	\$2.15
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VENEER BOX LARGE FLAT HEAD NEEDLE POINT

4d	\$1.70
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PERFECT ROOFING

EXTRA LARGE, CHECKERED HEADS, SMOOTH SHANK

Length	11 Gage 1/2" Head
7/8"	\$4.00
1"	3.75
1 1/4"	3.50
1 1/2"	3.00
1 3/4"	2.75

NON-LEAK ROOFING

DIAMETER OF HEADS 1/2"

Size	
1 1/4" x 10 ga.	\$3.60
2" x 10 ga.	3.50

COUNTERSUNK COUNTERSUNK HEAD

3d	\$2.75
4d	1.85
5d	1.75
6d	1.55
7d	1.50
8d	1.40
10d	1.20
12d	1.05
16d	.95
20d	.90
30d	.80
40d	.70
60d	.60

FRUIT BOX LARGE FLAT HEAD

4d	\$2.05
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EGG CASE LARGE FLAT HEAD

3d	\$3.00
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APPLE BOX LARGE FLAT HEAD

5 1/2 d	\$1.80
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NAILS & STAPLES

STANDARD STOCK SIZES

Extras per 100 Pounds

EXTRAS FOR FINISHES

Annealing.....	\$.25
Bluing.....	.40
Cement coating.....	.20
Hot galvanizing (tumbler process), 15 gage and coarser.....	2.75
Hot galvanizing (tumbler process), finer than 15 gage.....	3.25
Produced from Bethanized wire.....	5.00
Cadmium plating.....	4.50
*Parkerizing— 1 to 9 kegs, incl. of a size.....	3.75
*Parkerizing— 10 to 49 kegs, incl. of a size.....	3.50
*Parkerizing— 50 kegs or more..... of a size.....	3.25

*Orders specifying quantities less than 100 pounds are not acceptable.

EXTRAS FOR SPECIAL PACKING

50 lb. fibre cartons.....	\$.35
25 " " " .....	.60
10 " " "	1.00
5 " " "	1.40
1 " " "	2.50

QUANTITY EXTRAS FOR FINISHES

Orders specifying quantities of less than 100 pounds of a size are subject to the following extras in addition to the finish extra.

Per item	
10 to 24 lbs.....	\$ 1.50
25 to 49 lbs.....	1.25
50 to 74 lbs.....	1.00
75 to 99 lbs.....	.75

STANDARD WIRE STAPLES

POLISHED FENCE STAPLES 9 GAGE BRIGHT WIRE

Length	
7/8"	\$.80
1"	.80
1 1/8"	.80
1 1/4"	.80
1 1/2"	.80
1 5/8"	.80
1 3/4"	.80

GALVANIZED FENCE STAPLES

9 GAGE GALVANIZED WIRE

Length	
1"	\$ 1.75
1 1/8"	1.75
1 1/4"	1.75
1 5/8"	1.75
1 3/4"	1.75

GALVANIZED POULTRY NETTING STAPLES

14 GAGE GALVANIZED WIRE

Length	
3/4"	\$ 2.75